

Public Document.

City of Manchester,
New Hampshire.



Annual Reports for the Year
1902.

NEW HAMPSHIRE
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Fifty-Seventh Annual Report

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF MANCHESTER

NEW HAMPSHIRE

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1902

TOGETHER WITH

OTHER ANNUAL REPORTS AND PAPERS RELATING
TO THE AFFAIRS OF THE CITY.



MANCHESTER, N. H.

REMY BECHARD,  UNION PRINTER.

1903.

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1902

MANCHESTER CITY GOVERNMENT. 1902.

Mayor.

WILLIAM C. CLARKE. Office, City Hall

Chosen at biennial election in November, 1900. Salary, \$1,800 per annum, payable quarterly. (Act of June, 1848, section 1. Chapter 223, Laws of 1883. Public Statutes, chapter 47.

Aldermen.

Act of June, 1848, section 1. Public Statutes, chapter 48.

Ward 1. John P. Mullen, 12 Whitney street.

Ward 2. Fred K. Ramsey, 916 Chestnut street.

Ward 3. William F. Elliott, 194 Concord street.

Ward 4. Charles J. Darrah, 484 Maple street.

Ward 5. Daniel A. Murphy, 416 Beech street.

Ward 6. Samuel M. Couch, 447 East Spruce street.

Ward 7. Samuel F. Davis, 57 West Merrimack street.

Ward 8. G. Walter Taylor, 23 Boynton street.

Ward 9. Mederique R. Maynard, 324 Dubuque street.

Ward 10. Eugene E. Reed, 636 Somerville street.

President of the Common Council.

Harry T. Lord, 387 Hanover street.

Members of the Common Council.

Act of January, 1897, chapter 198.

WARD 1.

Frederick W. Bond, 46 Amoskeag Corporation.

Frank L. Danielson, 13 Lowell street.

Joseph E. Pellerin, 16 Whitney street.

WARD 2.

Silas R. Wallace, 66 Brook street.
Charles E. Chase, 381 Walnut street.
Charles E. Stearns, 329 Front street.

WARD 3.

John L. Rydin, 9 Jane street.
Thomas Smith, 24 South street.
A. Gale Straw, M. D., 627 Union street.

WARD 4.

George E. Smith, 461 Hanover street.
Eugene B. Worthen, 515 Hall street.
Harry T. Lord, 387 Hanover street.

WARD 5.

John A. Connelly, 180 Chestnut street.
George P. Riordan, 86 Auburn street.
Nicholas Sasseville, M. D., 671 Elm street.

WARD 6.

Charles G. Hastings, 581 Lake Avenue.
Harry A. Piper, 112 Manchester street.
Walter M. Lang, 719 Summer street.

WARD 7.

Robert Edgar, 70 West Merrimack street.
Joseph L. Simpkins, 16 Manchester Print Works Corporation.
Frank W. Stone, 7 Manchester Corporation, West Merrimack street.

WARD 8.

Henry A. Caswell, 107 Boynton street.
Joseph Vogel, 46 Manchester street.
John K. McQuesten, 723 South Main.

WARD 9.

Joseph Richer, 533 Main street.
Arthur Provost, 526 Beauport street.
Peter M. Gunderman, 280 Main street.

WARD 10.

Harry E. Blake, Norfolk street, Rural Route 5.
Frank A. Emerson, Brown Avenue.
Samuel J. Marsh, 957 Somerville street.

Clerk of Common Council.

Harry A. Piper, 112 Manchester street.

Salary, \$200. (General Laws, chapter 46, sections 7-9. City Laws and Ordinances, page 33, chapter 6, section 11.)

City Clerk.

Edward C. Smith Office, City Hall

Salary, \$1,350. Chosen in January, biennially, by board of aldermen. Residence, 900 Union street. Also clerk of all committees of the board of aldermen; salary, \$200.

City Clerk's Clerk.

Florence A. Robinson. City Clerk's Office, City Hall

City Auditor.

James E. Dodge Office, City Hall

Salary, \$1,200. Appointed by mayor and approved by board of aldermen in January, biennially. (Laws of 1889, chapter 287. City Ordinances, pages 44, 71, 83-88, 173.) Residence, River road north.

Auditor's Clerk.

Lizzie M. Cogswell Auditor's Office, City Hall

City Treasurer.

Fred L. Allen. Office, City Hall

Salary, \$1,350. Elected by board of aldermen in January, biennially. (Act of January, 1897, chapter 198.) Residence, 33 Walnut street.

Treasurer's Clerk.

Mabel L. How. Treasurer's Office, City Hall

Collector of Taxes.

George E. Morrill Office, City Hall

Salary, \$1,350, fees, and allowance for horsehire. Elected by mayor and aldermen before May 1, biennially. (Act of July, 1851. Act of June, 1859, section 6. Act of 1897, chapter 198. Public Statutes, chapter 43. City Laws and Ordinances, chapter 33.) Residence, 740 Chestnut street.

Deputy Collector of Taxes.

Edwin C. Paul Collector's Office, City Hall
 Joseph A. Guevin Collector's Office, City Hall

Salary, \$800. Appointed by tax collector with approval of mayor and aldermen. (City Laws and Ordinances, chapter 33, section 3.)

City Solicitor.

George A. Wagner Office, Pickering Building

Salary, \$800. Elected by board of aldermen in January, biennially. (Act of 1897, chapter 198.) Residence, 332 Orange street.

City Messenger.

John A. Barker. Office, City Hall

Salary, \$700. Elected by board of aldermen in January, biennially. (City Laws and Ordinances, chapters 4, 6.) Residence, 49 Appleton street.

Standing Committees.

BOARD OF ALDERMEN.

On Accounts.—Aldermen Mullen, Ramsey, and Darrah.

On Bills on Second Reading.—Aldermen Ramsey, Darrah, and Maynard.

On City Farm and House of Correction.—Aldermen Couch, Taylor, and Murphy.

On Claims.—Aldermen Davis, Murphy, and Reed.

On Cemeteries.—Aldermen Darrah, Ramsey, Couch, Taylor, and Elliott.

On Enrollment.—Aldermen Davis, Murphy, and Elliott.

On Finance.—The Mayor and Aldermen Elliott and Ramsey.

On Fire Department.—Aldermen Taylor, Couch, and Elliott.

On Lands and Buildings.—Aldermen Elliott, Mullen, and Davis.

On Licenses.—Aldermen Murphy, Davis, and Maynard.

On Lighting Streets.—Aldermen Reed, Mullen, and Darrah.

On Military Affairs.—Aldermen Maynard, Couch, and Reed.

On Public Health.—Aldermen Taylor, Reed, and Mullen.

On Setting Trees.—Aldermen Mullen, Taylor, and Reed.

On Sewers and Drains.—Aldermen Maynard, Couch, and Murphy.

On Streets.—Aldermen Ramsey, Maynard, and Davis.

Member first named is chairman of respective committee.

Clerk of committees, city clerk.

LIST OF OFFICERS.

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COMMON COUNCIL.

No. 1. Central, Auditor's, and Engineer's Departments and Department of Taxes.—Messrs. Straw, Lang, Gunderman, Simpkins, and Danielson.

No. 2. Street and Sewer Department.—Messrs. Bond, Smith, Caswell, McQuesten, and Provost.

No. 3. School Department.—Messrs. Hastings, Stone, Worthen, Lord and Marsh.

No. 4. Fire Department.—Messrs. McQuesten, Edgar, Smith, Lang, and Riordan.

No. 5. Public Buildings and Places Department.—Messrs. Wallace, Emerson, Blake, Gunderman, and Connelly.

No. 6. Health, Police, Public Library, Patriotic, Charitable, and Philanthropic Departments.—Messrs. Chase, Stearns, Sasseville, Richer, and Rydin.

No. 7. Lighting Streets Department. Messrs. Worthen, Stone, Pellerin, and Vogel.

Member first named is chairman of respective committee.

Finance Committee.

President of the Common Council Harry T. Lord, chairman *ex officio*, and the chairman of the different committees named above: Dr. Amos Gale Straw, Frederick W. Bond, Charles G. Hastings, John K. McQuesten, Silas R. Wallace, C. Edwin Chase, and Eugene B. Worthen.

City Physician.

Frederick Perkins. Office, Pickering Building

Salary, \$600. Elected by board of aldermen in January, biennially. (Act of 1897, chapter 198. City Ordinances, chapter 9, sections 29, 30.)
Residence, 52 Clarke street.

City Engineer.

Samuel J. Lord Office, City Hall

Salary, \$1,350 and allowance for horsehire. Chosen by board of aldermen in January, biennially. (City Ordinances, chapter 6, sections 33, 34.)

ENGINEER'S ASSISTANTS.

Harrie M. Young.

Harry J. Briggs.

George M. Wales.

Alfred T. Dodge.

Henry A. Worthen.

STENOGRAPHER.

Ella B. Davis.

Water Commissioners.

(Chapter 70, Laws of 1871. City Ordinances, chapter 36, and Laws of 1891, chapter 26, page 319, act approved March 31, 1891. Chapter 183, Laws of 1893.) One commissioner elected annually by mayor and aldermen, in the month of September, for a term of six years. Office at court house, corner Franklin and West Merrimack streets. Telephone at office and at pumping station.

The Mayor, *ex officio*.

Charles H. Manning. Term expires January, 1907.

Frank Dowst. Term expires January, 1906.

William Corey. Term expires January, 1905.

Edgar J. Knowlton. Team expires January, 1904.

Harry E. Parker. Term expires January, 1903.

Charles M. Floyd. Term expires January, 1908.

Charles H. Manning, chairman.

Superintendent of Water-Works.

Charles K. Walker Office, Court House, Franklin street

Salary, \$2,400. Chosen by water commissioners annually. Residence, 68 South Main street, West Manchester.

Clerk of the Water-Works.

Arthur E. Stearns Office, Court House, Franklin street

Salary, \$1,800. Chosen by water commissioners annually.

Engineer at Old Pumping Station.

Josiah Laselle. Salary, \$700. rent, fuel, and use of land.

Chosen by water commissioners annually.

Engineer at New Pumping Station.

C. A. Whitney, \$2.50 per day, rent, and fuel.

Justice of the Police Court.

Isaac L. Heath, court room at police station, corner Manchester and Chestnut streets.

Salary, \$1,500. Appointed by the governor with the advice of the council. (General Laws, chapter 215: chapter 163, sections 17, 18, 19, of the Laws of 1878, as amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.

Associate Justice of the Police Court.

George W. Prescott. Salary, \$300 per annum.

Appointed by the governor, with the advice of the council. (Chapter 215, General Laws, sections 2-14. Public Statutes, chapter 211. Chapter 296, Laws of 1893.)

Clerk of the Police Court.

John C. Bickford. Salary \$600.

Appointed by the justice of the police court. (Chapter 163, sections 17-19, General Laws, amended by chapter 236. Laws of 1881. Public Statutes, chapter 211.) Residence, 15 Ash street.

Police.

The members of the police are appointed by the police commissioners, and hold their commissions during good behavior. They are, by virtue of their appointment, constables and conservators of the peace, and their jurisdiction extends throughout the city. (Chapter 253, section 5, General Laws; chapter 303, Laws of 1887; chapter 202, Laws of 1893.) Police station at the corner of Chestnut and Manchester streets.

Police Commissioners.

See chapter 202, Laws of 1893.

Noah S. Clark, clerk. Term expires January, 1904.

Frank P. Cheney. Term expires January, 1908.

Edward B. Woodbury, chairman. Term expires January, 1906.

Chief of Police.

Michael J. Healy Office at Police Station

Salary, \$2,000. Residence, 304 Central street. Telephone at house and office.

Deputy Chief of Police.

John F. Cassidy Office at Police Station

Salary, \$1,500. Residence, 569 Hanover street.

Captain of the Watch.

Thomas E. Steele. Salary, \$2.50 per day. Residence, 253 Walnut street.

Sergeants.

Leon E. Magoon. Salary, \$2.50 per day. Residence, 261 Blodget street.

John T. O'Dowd. Salary, \$2.50 per day. Residence, 99 Adams street.

Patrolmen.

Adler, Leonard J.
 Archambeault, Joseph.
 Badger, John C.
 Bean, Randall W.
 Bourassa, Frank E.
 Brown, John G.
 Butler, James S.
 Callaghan, Peter.
 Connor, John J.
 Coolidge, Edgar L.
 Dunn, James F.
 Dustin, Frank J.
 Farrell, Joseph A.
 Foye, William F.
 Hampston, James S.
 Hampston, Patrick F.
 Healy, John D.
 Heneault, Edward
 Hildreth, Clifton B.
 Hutchins, Dexter B.

Lovejoy, George A.
 Lynch, John J.
 Marden, Frank W.
 McQuade, Edward H.
 Moher, William.
 Moore, Frank P.
 Moriarty, Mortimer J.
 Nixon, John T.
 O'Malley, John F.
 Parmenter, Wallace C.
 Poehlman, Oscar R.
 Proctor, Levi J.
 Rainville, Frank.
 Russell, Albert
 Somers, Elmer E.
 Sullivan, Florence.
 Sweeney, James.
 Tilton, Asa N.
 Welch, John T.
 Wheden, Eben E.

Janitor of Station.

Frank P. Wiggin. Salary, \$2.00 per day. Residence, 156 Merrimack street.

Matron.

Miss A. B. Brown. Salary, \$415 per annum. Residence, 228 Merrimack street.

School Committee.

Chosen at the biennial election in November, 1900: mayor and president of the common council members *ex officio*. The board of school committee choose the clerk of the board, the superintendent of public instruction, the truant officer, and the teachers in the public schools, and determine their salaries. They have charge of the repairs of schoolhouses, to a limited extent, and the purchase of free text-books and other supplies, and are limited by the appropriations of the city councils. The salary of the committee is \$10 each.

	WARD 1.	
Walter B. Heath.		Elliot C. Lambert.
	WARD 2.	
Charles H. Manning.		Will C. Heath.
	WARD 3.	
George D. Towne.		Louis E. Phelps.
	WARD 4.	
Nathaniel L. Colby.		George F. Soule.
	WARD 5.	
John T. Kelley.		Daniel J. McAuliffe.
	WARD 6.	
Eugene B. Dunbar.		Harry L. Davis.
	WARD 7.	
Edward B. Woodbury.		Edson S. Heath.
	WARD 8.	
Walter B. Mitchell.		Benjamin Price.
	WARD 9.	
Sabin Nourry.		Henry I. Lemay.
	WARD 10.	
Mark E. Harvey.		Harry H. Burpee.
William C. Clarke, <i>ex officio</i> chairman.		
Harry T. Lord, <i>ex officio</i> .		
George D. Towne, vice-chairman.		
Elliot C. Lambert, clerk.		

Superintendent of Public Instruction.

Charles W. Bickford Office, City Hall
Salary, \$2,300.

Superintendent's Clerk.

Fannie L. Sanborn Residence, 161 Hanover street
Salary, \$500.

Treasurer.

Curtis W. Davis Office, City Hall

Salary, \$850 and allowance for horsehire. Residence, 849 Chestnut street.

Assessors.

One assessor from each ward chosen at the biennial election in November. Paid \$2.50 for each day while employed in the assessment and abatement of taxes. Office, City Hall. (Charter, section 25. Public Statutes, chapter 48, section 1; chapter 50, section 4; chapter 49, sections 10, 11, 12. City Ordinances, chapter 6, section 26.) Assistant assessors, not exceeding six, chosen by the city councils.

- Ward 1. John L. Sanborn, 25 Market street.
- Ward 2. John K. Wilson, 67 Blodget street.
- Ward 3. David O. Fernald, 384 Lowell street.
- Ward 4. Harrison D. Lord, 387 Hanover street.
- Ward 5. George F. Sheehan, 85 Cedar street.
- Ward 6. Leroy M. Streeter, Mammoth Road.
- Ward 7. Robert Leggett, 50 Amoskeag Corporation.
- Ward 8. Eugene W. Brigham, 6 Marlboro street.
- Ward 9. Denis Vigneault, 564 Cartier.
- Ward 10. Albert J. Peaslee, Cohas avenue.

CHAIRMAN OF ASSESSORS.

David O. Fernald Office, City Hall

CLERK OF ASSESSORS.

Eugene W. Brigham Office, City Hall

ASSISTANT ASSESSORS.

- | | |
|-----------------------|-----------------|
| Charles W. Brown. | Harry J. Woods. |
| Robert Edgar. | Henry F. Stone. |
| Clarence M. Woodbury. | Asa B. Eaton. |

Inspectors of Check-Lists.

One in each ward, chosen at the biennial election in November. Compensation, \$2.25 per day for each day actually employed. Office, City Hall. (Laws of 1878, chapter 163, sections 5, 6, 7, 9, 10, 11, 12, 13, 14, 16, and City Ordinances, chapter 14, section 9.)

- Ward 1. Frank X. Foster, 1382 Elm street.
- Ward 2. Charles B. Tucker, 777 Union street.
- Ward 3. William B. Corey, 88 Pearl street.
- Ward 4. Albert T. Barr, 336 Merrimack street.

- Ward 5. Patrick E. Daley, 188 Chestnut street.
 Ward 6. George Taylor, 480 Lake avenue.
 Ward 7. Joseph A. Foster, 42 Amoskeag Corporation.
 Ward 8. Charles C. Tinkham, 9 Parker avenue.
 Ward 9. Norbert Descoteau, 302 Cartier street.
 Ward 10. John G. Hutchinson, 939 Hayward street.

Overseers of the Poor.

One in each ward, chosen at biennial election in November. The mayor is a member *ex officio*. Compensation, \$50 per annum, each; clerk of the board, \$125 per annum, determined by City Ordinances, chapter 14, section 18, as amended by Ordinance of August 5, 1890, and July 2, 1901. Meet third Wednesday of each month in City Hall building.

- Ward 1. George E. Davis, 40 Amoskeag Corporation.
 Ward 2. Daniel G. Andrews, 777 Union street.
 Ward 3. Benjamin F. Garland, 28 Linden street.
 Ward 4. Charles B. Clarkson, 329 Amherst street.
 Ward 5. Thomas F. Sheehan, 364 Beech street.
 Ward 6. Charles Francis, Candia road.
 Ward 7. William Marshall, 80 Amoskeag Corporation.
 Ward 8. Henry Lein, 118 Third street.
 Ward 9. Thomas C. Stewart, 584 Main street.
 Ward 10. James H. McKenzie, 72 Elm street.
 William C. Clarke, *ex officio*. Office, City Hall.
 William H. Maxwell, clerk.

Board of Health.

(City Ordinances, chapter 14, section 10, as amended. Laws of 1885, chapter 165; Laws of 1887, chapter 227; Public Statutes, chapters 108, 109, 110.) One member appointed by the mayor in January of each year, to hold office for a term of three years. Salary, \$200 each per annum. Office, Court House, West Merrimack, corner of Franklin street.

John C. Bickford. Term expires first Monday in February, 1903.

William K. Robbins. Term expires first Monday in February, 1904.

William M. Parsons. Term expires first Monday in February, 1905.

William B. Blake, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

John F. Looney, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

Carl O. Seaman, sanitary inspector. Office, Court House, Merrimack corner Franklin street.

M. Alma Fracker, office clerk.

Fire Department.

The chief engineer and four assistant engineers are chosen biennially in the month of June, by a majority of the city councils in convention. The salary of the chief engineer is \$1,500 per annum; the assistant engineers, each \$250 per annum. They exercise the powers and perform the duties of firewards. The said engineers constitute the board of engineers, and elect a clerk whose compensation is \$25 a year. The annual compensation of the call members of the several hook-and-ladder, hose, steam fire engine, and chemical companies is as follows: Captains, each \$165; lieutenants, each \$160; clerks, each \$160; call engineers, each \$185; assistant engineers, each \$155; all other members, each \$150; payable in semi-annual payments, on the first of January and July. (Laws of 1870, chapter 99. General Laws, chapter 106. City Ordinances, chapters 6 and 12.) Six members are permanently employed as engineers at \$76.25 per month each, and twenty-one as drivers at \$68.33 1-3 per month each, six other permanent men at \$65 per month each, permanent captains, \$75 per month each, and receive no compensation as call members. Members and officers of each company are appointed by the board of engineers.

Chief Engineer.

Thomas W. Lane Office, Central Station, Vine street
Residence, 1937 Elm street. Telephone at house and office.

Fred S. Bean.

John F. Seaward.

John Montplaisir.

Clarence R. Merrill, clerk.

For further information see chief engineer's report.

Trustees of City Library.

(Law of 1854, chapter 1588. See contract with Manchester Atheneum, printed on pages 107 and 108 of City Report for fiscal year ending January 31, 1855.) Board of seven trustees, one of whom is elected by aldermen and board of trustees in joint convention in September, annually. Term of service, seven years, no salary. Two additional trustees, mayor, and president of common council, *ex officio*.

Frank P. Carpenter, Elm corner West North street. Term expires October 1, 1907.

Nathan P. Hunt, 747 Union street. Term expires October 1, 1908.

Herman F. Straw, 607 Chestnut street. Term expires October 1, 1907.

Walter M. Parker, 1883 Elm street, corner of Webster. Term expires October 1, 1906.

Roger G. Sullivan, 168 Walnut street. Term expires October 1, 1905.

Henry W. Boutwell, 587 Union street. Term expires October 1, 1904.

Joseph W. Fellows, 186 Lowell street. Term expires October 1, 1903.

William C. Clarke, *ex officio*.

Harry T. Lord, *ex officio*.

Nathan P. Hunt, clerk.

Board of Street and Park Commissioners.

The board of Aldermen, biennially, elect one member of said board for a term of six years. Not more than two members can be of the same political party. Said board, consisting of three members, has full charge, management and control of the building, constructing, repairing, and maintaining of all the streets, highways, lanes, sidewalks, bridges, public sewers and drains, and public parks and commons. (See Laws of 1893, chapter 264.) Office, City Hall building. Open from 8 to 12 A. M., 2 to 5 P. M. Regular meeting of the board at 2 o'clock P. M. each day. Salary of each member \$600 per year, payable quarterly, and each is allowed \$150 annually for horse-hire.

George H. Stearns, clerk. Term expires 1904.

Horace P. Simpson, chairman. Term expires 1906.

Byron Worthen. Term expires 1908.

Assistant Clerk.

Bertha F. Whitney.

City Weigher.

Gilbert Lyons. Office, city scales.

Elected biennially in board of aldermen. Salary, \$400 per annum; all fees for weighing returned monthly to city treasurer with sworn statement. Stationed at city scales on Franklin street.

Sealer of Weights and Measures.

Charles B. Clarkson.

Elected biennially in January by board of aldermen. Paid by fees. (Section 25, chapter 43, Public Statutes, and chapter 125, Public Statutes.

Trustees of Cemeteries.

(City Ordinances, chapter 39, sections 1, 2, 3, 4.) Two trustees elected by board of aldermen in January, annually, for the term of four years. Sub-trustees appointed by board of trustees.

J. Adam Graf, 10 Middle street. Term expires January, 1905.

William H. Huse, Mammoth road. Term expires 1903.

John L. Sanborn, 25 Market street. Term expires 1906.

Bushrod W. Hill, 299 Hanover street. Term expires 1906.

Stillman P. Cannon, 99 Lowell street. Term expires 1905.

Charles E. Stearns, 329 Front street. Term expires 1903.

Edwin F. Jones, 15 High street. Term expires January 1904.

Harrie M. Young, 33 Dutton street. Term expires January 1904.

Fred L. Allen, clerk and treasurer, 33 Walnut street.

Sub-Trustees of Cemeteries.

VALLEY CEMETERY.

Aldermen Fred K. Ramsey and Samuel M. Couch; John L. Sanborn, Bushrod W. Hill, and Stillman P. Cannon.

PINE GROVE CEMETERY.

Aldermen Charles J. Darrah and William F. Elliott; J. Adam Graf, Harrie M. Young, and Edwin F. Jones.

AMOSKEAG CEMETERY.

Alderman G. Walter Taylor; Charles E. Stearns and William H. Huse.

SUPERINTENDENT OF PINE GROVE CEMETERY.

John Erskine. Office and residence at the cemetery.

SUPERINTENDENT OF VALLEY CEMETERY.

Charles H. G. Foss. Office at the cemetery; residence, 747 Summer street.

TRUSTEES OF CEMETERY FUND.

Norwin S. Bean.

Otis Barton, 61 Walnut street.

William C. Clarke, *ex officio*.

Inspector of Milk.

Joseph H. Geisel.

Term expires February 1, biennially. (Public Statutes, chapter 127.) Appointed by mayor and aldermen. Salary, \$300 per annum.

Inspector of Buildings.

Lyman M. Aldrich Office, City Hall

Residence, 375 Lake avenue. Appointed by board of mayor and aldermen, biennially, in February. Salary, \$800 per annum and an allowance for horsehire. (City Ordinances, chapter 15. Laws of 1883, chapter 94.)

Inspectors of Oil.

J. Oscar Burbank.

John Cayzer, 383 Granite street.

(Public Statutes, chapter 129, sections 25-34. City Ordinances, chapter 25.) Paid by fees, 1-4 of one per cent per gallon.

Board of Examiners of Plumbers.

Appointed by the mayor.

William K. Robbins.

Samuel J. Lord.

Christian L. Wolf.

William K. Robbins, president.

Samuel J. Lord, clerk.

Sinking Fund Commissioners.

Horace P. Simpson, chairman.

Fred L. Allen, clerk and treasurer.

Charles H. Manning.

Moderators.

Elected biennially. (General Laws, chapter 31, sections 3, 9; chapter 36, section 9; chapter 44, section 7. City Ordinances, page 18. See Public Statutes relating to towns and cities.)

Ward 1. Abial W. Eastman.

Ward 6. Harry L. Davis.

Ward 2. Robert R. Chase.

Ward 7. Johann A. Graf.

Ward 3. George E. Prime.

Ward 8. Charles G. Ranno.

Ward 4. William H. Morgan.

Ward 9. Walter M. Fulton.

Ward 5. Martin J. Whalen.

Ward 10. William B. Burpee.

Ward Clerks.

Elected biennially. (General Laws, chapter 44, sections 10, 12. City Ordinances, page 18. Public Statutes relating to towns and cities.)

Ward 1. Charles D. Sumner.

Ward 6. Leslie M. Dolloff.

Ward 2. William H. Maxwell.

Ward 7. Charles E. Bartlett.

Ward 3. George W. Cook.

Ward 8. Robert A. Leckie.

Ward 4. Herman W. Colby.

Ward 9. Rudolph Desfosses.

Ward 5. Daniel F. O'Neil.

Ward 10. William P. Hall.

Selectmen.

Elected biennially. (General Laws, chapter 1, section 27; chapter 12, section 6; chapter 40, sections 2, 3; chapter 109, section 27; chapter 213, section 1. City Ordinances, page 18. Public Statutes relating to towns and cities.)

WARD 1.

Alexander Hanna.

Byron H. Smith.

John R. Hickey.

Joseph F. Marsh.	WARD 2.	Daniel G. Andrews.
	Fred K. Ramsey.	
Walter H. Wright.	WARD 3.	Victor C. Johnson.
	Joel S. Daniels.	
George M. Currier.	WARD 4.	Moses D. Allard.
	Joseph E. Merrill.	
Edward T. Allen.	WARD 5.	William M. Walker.
	Joseph Geoffrion.	
Andrew B. Bunton.	WARD 6.	George M. Bean.
	John Heron.	
Henry W. Allen.	WARD 7.	Alexander Knight.
	Edgar A. Thayer.	
Adam Ewerwin.	WARD 8.	Osman W. Pettengill.
	William R. Blakely.	
Arthur J. Provost.	WARD 9.	William Broderick.
	Frank J. Hanel.	
Ignatius T. Webster.	WARD 10.	Patrick H. O'Malley.
	Joseph Gosselin.	

REPORT OF THE AUDITOR.

REPORT OF THE CITY AUDITOR.

To the Board of Mayor and Aldermen :

GENTLEMEN,—The auditor herewith submits to your honorable body his report, giving a tabular statement of the receipts and expenditures for the year 1902, and a detailed statement of the expenses of each appropriation during the year.

Respectfully,

JAMES E. DODGE,
City Auditor.

REPORT OF THE CITY TREASURER FOR THE YEAR 1902.

Temporary loans :		DR.
New England Trust Co.....	\$75,000.00	
Edgerly & Crocker.....	50,000.00	
Merrimack River Savings Bank.....	50,000.00	
First National Bank.....	25,000.00	
Loring, Tolman & Tupper.....	25,000.00	
Manchester National Bank.....	15,000.00	
	<hr/>	\$240,000.00
E. C. Smith, city clerk :		
Dog licenses.....	\$872.57	
Sewer licenses.....	1,475.00	
Rent of tenements.....	56.00	
Show licenses.....	300.00	
Pool licenses.....	355.09	
Fees, intentions of marriage.....	636.00	
mortgages	146.35	
conditional sales.....	111.25	
corporations	20.50	
miscellaneous records.....	11.50	
writs	26.20	
	<hr/>	\$4,010.46
Police department :		
M. J. Healy.....	\$4,678.76	
John C. Bickford.....	1,172.36	
	<hr/>	\$5,851.12

Pine Grove cemetery :

Fred L. Allen, treasurer.....	\$2,714.33	
John H. Erskine, superintendent.....	4,284 82	
	<hr/>	\$6,999.15

Merrill Yard :

John H. Erskine, superintendent.....		\$10.00
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George E. Morrill, collector of taxes :

Taxes of 1902.....	\$650,212.73	
Taxes of 1901.....	52,335.36	
Old taxes.....	280.65	
Land sold for taxes May 20, 1902.....	7,711.75	
Abatement of taxes, 1901	467.37	
Abatement of taxes, 1902	1,199.90	
Redemption of land sold for taxes May 16, 1901, for taxes 1900	3,129.10	
Redemption of land sold for taxes May 16, 1900, for taxes 1899	3,070.83	
Redemption of land sold for taxes May 1902, for taxes 1901	3,295.79	
Interest on taxes 1901.....	1,827.81	
Costs on taxes 1901	1,748 50	
	<hr/>	\$725,279.79

Solon A. Carter, state treasurer :

Insurance tax.....	\$3,157.50	
Railroad tax	41,206 87	
Savings bank tax.....	57,512.95	
Literary fund.....	2,834.50	
	<hr/>	\$104,711.82

City farm :

E. G. Libbey, superintendent.....		\$4,447.10
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City scales ;

Gilbert Lyons.....		346.36
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Water-works department :

Charles K. Walker, superintendent.....		\$134,331.48
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Valley cemetery :

C. H. G. Foss, superintendent :.....		\$1,700.52
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Street and park commission :

Manchester Street Railway.....	\$76.36	
W. J. Moyes.....	125.00	
Manchester Traction, Light & Power Co.....	4,534.86	
Pike & Heald Co.....	104.25	
T. A. Lane Co.....	43.21	
Sundry persons	2,486.00	
	<hr/>	\$7,369.68

Interest on bank Deposits :

First National Bank	\$920.80	
Merchants' National Bank	610.95	
George E. Morrill, collector	829.83	
		<hr/> \$2,361.58

Miscellaneous receipts :

State of New Hampshire	\$7.00	
C. A. Hoitt & Co., overdraft	5.00	
Amesbury File Works, overdraft	6.50	
County of Hillsborough :		
One-half coal supplied court house	401.50	
G. Lein & Sons, overdraft	1.00	
William E. Buck, land bought of city :		
By Mack estate	100.00	
Swift Brothers & Co.	21.54	
S. J. Lord, plumbers' licenses	25.00	
J. O. Robitaille, overdraft	5.25	
New England Telephone and Telegraph Co. :		
Abatement of rents of telephone	27.97	
Infants' Asylum, overdraft	4.00	
		<hr/> \$604.76

Milk licenses :

J. H. Geisel	\$47.00	
Board of health	471.50	
		<hr/> \$518.50

Tuition :

Charles W. Bickford, superintendent	\$1,388.35
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Free text books :

E. C. Lambert, clerk	\$200.00
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Bonds :

W. S. Hayes and Sons	\$80,000.00	
Premiums	3,020.00	
Accrued interest	155.56	
		<hr/> \$83,175.56

Trustees of sinking fund :

For the payment of water bonds	\$100,000.00
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Total receipts for year 1902	\$1,423,306.23
Cash on hand January 1, 1902	176,279.57
Unpaid bills December 31, 1902	26,170.39
	<hr/>
	\$1,626,056.19
	<hr/>

	CR.
Drafts paid during the year.....	\$1,430,752.15
Unpaid bills January 1, 1902.....	24,660.90
Cash on hand December 31, 1902.....	170,643.14
	<hr/>
	\$1,626,056.19
	<hr/>

Respectfully submitted.

FRED L. ALLEN,
City Treasurer.

To the City Councils of the City of Manchester:

GENTLEMEN,—I have examined the accounts of Fred L. Allen, city treasurer, for the year ending December 31, 1902, and find proper vouchers for all payments, and all receipts duly accounted for.

The net cash on hand January 1, 1902, was.....	\$151,918.67
Receipts during the year	1,423,306.23

Total	\$1,575,224.90
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Amount of drafts during the year	\$1,430,752.15
Net cash on hand December 31, 1902	144,472.75

Total	\$1 575,224.90
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The cash taken December 31, 1902, I find to be as follows:

Deposited in Suffolk National Bank.....	\$24,184.46
Deposited in Merchants' National Bank.....	107,313.12
Deposited in office safe.....	39,145.56

Gross amount of cash on hand December 31, 1902	\$170,643.14
Deduct amount of bills unpaid.....	26,170.39

Net amount of cash on hand December 31, 1902.....	\$144,472.75
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Respectfully submitted with a tabular statement of the receipts and expenditures of the city for the year 1902.

JAMES E. DODGE,
City Auditor.

STATEMENT OF THE RECEIPTS AND EXPENDITURES OF THE
CITY OF MANCHESTER FOR THE YEAR 1902.

RECEIPTS.

CENTRAL DEPARTMENT.

Received from :

Direct city taxes	\$712,207.76	
Cost and interest on taxes	3,576.31	
	<hr/>	\$715,784.07
Licenses to enter sewer	\$1,475.00	
to keep dog	872.57	
to sell milk	518.50	
to keep billiard and pool tables and lunch carts	355.09	
to shows and exhibitions	300.00	
Fees from city clerk	951.80	
	<hr/>	\$4,472.96
Rents		\$56.00

SUNDRIES.

Received from :

City scales	\$346 36	
Free text books	200.00	
Tuition	1,388.35	
Miscellaneous sources	184.51	
	<hr/>	\$2,119.22

POLICE DEPARTMENT.

Received from costs and fines	\$5,851.12
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PUBLIC PLACES.

Received from :

Pine Grove cemetery	\$6,999.15	
Valley cemetery	1,700 52	
Merrill cemetery	10.00	
	<hr/>	\$8,709.67

WATER-WORKS.

Gross receipts	\$134,331.48
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CHARITABLE, PATRIOTIC AND PHILANTHROPIC.

Received from :

City farm	\$4,447.10	
Hillsborough county, coal for court house....	401.50	
	<hr/>	\$4,848.60

MISCELLANEOUS.

Received from:

Interest	\$2,517.14	
Land redeemed from tax sale.....	9,495.72	
Overdrafts	21.75	
Plumbers' certificates	25.00	
Street and park commission, sale of pipe, etc.	2,806.82	
Manchester Street Railway, paving.....	4,534.86	
		<hr/>
		\$19,401.29

Total ordinary receipts during the year 1902..... \$695,574.41

TEMPORARY LOAN AND BONDS SOLD.

Received from:

Loan in anticipation of tax of 1902	\$240,000.00	
Bonds sold	80,000.00	
Premium on bonds	3,020.00	
		<hr/>
		\$323,020.00

Received from sinking fund trustees \$100,000.00

STATE.

Received from:

Insurance taxes	\$3,157.50	
Railroad taxes	41,206.87	
Savings-bank taxes	57,512.95	
Literary fund	2,834.50	
		<hr/>
		\$104,711.82

Gross receipts \$1,423,306.23

Net cash on hand January 1, 1902 151,918.67

\$1,575,224.90

EXPENDITURES.

CENTRAL DEPARTMENT.

Interest on water bonds	\$36,313.00	
on city bonds	35,203.00	
on cemetery bonds	2,500.00	
on temporary loans	3,619.60	
on Amoskeag tax suit	678.98	
		<hr/>
		\$78,314.58

RECEIPTS AND EXPENDITURES.

27

City hall	\$3,994.59	
Printing and stationery	1,913.45	
Incidental expenses	8,042.57	
Mayor's incidentals	257.25	
City officers' salaries	28,274.41	
Auditor's department	2,311.24	
Sinking fund trustees	27,000.00	
File and index system	203.50	
Land sold for taxes	7,711.75	
	<hr/>	\$79,708.76

STREET AND SEWER DEPARTMENT.

Street and park commission	\$3,391.01	
Snow and ice	4,595.89	
Repairs of highways	29,494.49	
New highways	4,795.26	
Land taken for highways	100.00	
Watering streets	3,142.76	
Paving streets	5,268.58	
Macadamizing streets	6,415.39	
Grading for concrete	4,889.37	
Scavenger service	17,231.02	
Paving Elm street	16,534.08	
Paving Canal street	4,221.57	
Street sweeping	3,232.21	
Lighting streets	60,656.69	
Bridges	6,258.38	
City teams	6,990.76	
Repairs of sewers	5,744.44	
New sewers	24,443.69	
	<hr/>	\$207,405.59

ENGINEER'S DEPARTMENT.

Engineer's department	\$6,948.03
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HEALTH DEPARTMENT.

Health department	\$7,490.25
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SCHOOL DEPARTMENT.

Repairs of schoolhouses	\$9,996.66
Fuel	10,304.02
Furniture and supplies	1,187.38
Books and stationery	44.66
Printing and advertising	283.18
Contingent expenses	2,507.19

Care of rooms	6,522.13	
Evening schools	1,155.35	
Teachers' salaries	93,779.80	
Evening school, mechanical drawing	252.00	
Free text-books	6,160.77	
Manual training	498.02	
Sewing materials for girls	250.00	
	<hr/>	\$132,941.16

CITY LIBRARY.

City library	\$6,246.55
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FIRE DEPARTMENT.

Fire department	\$70,357.96	
Fire-alarm telegraph	1,837.08	
Hydrant service	18,800.00	
	<hr/>	\$90,995.04

POLICE DEPARTMENT.

Police station	\$2,390.66	
Police court	2,870.78	
Police commission	43,028.02	
	<hr/>	\$48,289.46

PUBLIC BUILDINGS.

Repairs of buildings	\$4,786.97	
Board of plumbing examiners	28.86	
South Beech street schoolhouse	11,962.50	
Isolation hospital	6,167.38	
Wilson Hill engine house	1,850.50	
	<hr/>	\$24,796.21

WATER-WORKS.

Water-works	\$72,196.26	
Water-works sinking fund	23,800.00	
	<hr/>	\$95,996.26

PUBLIC PLACES.

Commons	\$4,258.13	
Stark park	1,020.91	
Derryfield park	589.65	
Pine Grove cemetery	9,948.51	
Valley cemetery	3,090.71	
Amoskeag cemetery	248.90	
Merrill cemetery	19.47	
South Manchester playground	40.10	
	<hr/>	\$19,216.38

RECEIPTS AND EXPENDITURES.

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CHARITABLE, PATRIOTIC AND PHILANTHROPIC.

Paupers off farm	\$12,466.53	
City farm	8,565.12	
Indigent soldiers	117.00	
Women's Aid Home	300.00	
Elliot Hospital	300.00	
Notre Dame de Lourdes Hospital	300.00	
Sacred Heart Hospital	300.00	
W. C. T. U. Mercy Home	300.00	
Decoration of soldiers' graves	400.00	
Militia	700.00	
Band concerts	400.00	
	<hr/>	\$24,148.65

ABATEMENTS.

Abatement of taxes	\$84,295.23	
	<hr/>	
Total of ordinary municipal expenditures		\$906,792.15

TEMPORARY LOAN.

Temporary loan	\$255,709.00	
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BONDED DEBT.

School bonds	\$10,000.00	
Water bonds	100,000.00	
	<hr/>	\$110,000.00

STATE AND COUNTY TAXES.

State tax	\$63,869.00	
County tax	94,382.00	
	<hr/>	\$158,251.00

Grand total of expenditures during the year		\$1,430,752.15
Cash on hand December 31, 1902	\$170,643.14	
Less unpaid bills	26,170.39	
	<hr/>	
Net cash on hand		144,472.75
		<hr/>
		\$1,575,224.90
		<hr/>

Interest.

Appropriation	\$42,000.00	
Transferred from water-works account	36,313.00	
Transferred from unappropriated money	1.58	
	<hr/>	\$78,314.58
		<hr/>

REPORT OF THE CITY AUDITOR.

EXPENDITURES.

Coupons on water bonds	\$36,314.00	
Coupons on improvement bonds	16,000.00	
Coupons on school bonds	7,220.00	
Coupons on bridge bonds	2,402.00	
Coupons on city bonds	6,080.00	
Coupons on city funding bonds	3,500.00	
Coupons on cemetery bonds	2,500.00	
Amoskeag Manufacturing Co., interest on judgment	678.98	
Edgerly & Crocker, discount on notes	900.12	
First National Bank, discount on note	234.38	
Loring, Tolman & Tupper, discount on note . .	330.08	
Manchester National Bank, discount on note . .	59.38	
Merrimack River Savings Bank, discount on notes	705.01	
New England Trust Co., discount on notes . .	1,390.63	
Total expenditures		<u>\$78,314.58</u>

Payment of Funded Debt.

Appropriation	\$10,000.00	
Received from sinking fund trustees	100,000.00	
		<u>\$110,000.00</u>

EXPENDITURES.

Water bonds	\$100,000.00	
Schoolhouse bonds	10,000.00	
		<u>\$110,000.00</u>

Sinking Fund.

Appropriation	<u>\$27,000.00</u>
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EXPENDITURES.

Trustees of sinking fund	<u>\$27,000.00</u>
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Unappropriated Money.

Appropriation	\$5,000.00	
Transferred from the following accounts:		
Incidental expenses	457.43	
Mayor's incidentals	42.75	
Auditor's department	188.76	
Street and park commission	108.99	
Snow and ice	1,904.11	
New highways	2,204.74	
Watering streets	1,557.24	
Paving Elm Street . . . . .	.78	
Macadamizing streets	3,584.61	
Scavenger service	768.98	
Lighting streets	343.31	
City teams	9.24	
Commons	241.87	
South Manchester playground	9.90	
Board of plumbing examiners	71.14	
Repairs of schoolhouses	3.34	
Furniture and supplies	12.62	
Books and stationery	30.34	
Printing and advertising	16.82	
Evening schools	44.65	
Free text-books	39.23	
Manual training	1.98	
Police commission	571.98	
Police station	109.34	
Police court	29.22	
Pine Grove cemetery	51.49	
Valley cemetery	9.29	
Amoskeag cemetery	1.10	
Merrill cemetery	80.53	
City farm	34.88	
Indigent soldiers	13.00	
Abatement of taxes	724.77	
Unappropriated receipts	8,822.01	
		<hr/>
		\$27,090.44
		<hr/>

EXPENDITURES.

Transferred to the following accounts:	
Interest	\$1.58
Repairs of buildings	161.97
City hall	194.59
Isolation hospital	265.39

REPORT OF THE CITY AUDITOR.

Printing and stationery	63.45	
South Beech street schoolhouse	1,962.50	
City officers' salaries	374.41	
Paupers off farm	2,566.53	
Repairs of highways	4,191.14	
Land sold for taxes	911.75	
Land taken for highways	5,008.08	
Paving streets	768.58	
Grading for concrete	1,389.37	
Street sweeping	732.21	
Bridges	258.38	
Repairs of sewers	744.44	
Paving Canal street	221.57	
New sewers	1,940.22	
Stark park	20.91	
Derryfield park	89.65	
Engineer's department	73.30	
Health department	690.25	
Fuel	1,504.02	
Contingent expenses	7.19	
Care of rooms	22.13	
Teachers' salaries	2,779.80	
Evening school, mechanical drawing	2.00	
Fire department	7.96	
Fire-alarm telegraph	137.08	
		<hr/>
		\$27,090.44

Temporary Loan.

Appropriation	\$15,709.00	
New England Trust Co.	75,000.00	
Edgerly & Crocker	50,000.00	
First National Bank	25,000.00	
Loring, Thomas & Tupper	25,000.00	
Manchester National Bank	15,000.00	
Merrimack River Savings Bank	50,000.00	
		<hr/>
		\$255,709.00

EXPENDITURES.

Edgerly & Crocker	\$50,000.00	
First National Bank	25,000.00	
Loring, Thomas & Tupper	25,000.00	
Manchester National Bank	15,000.00	
Merrimack River Savings Bank	50,000.00	
New England Trust Co.	90,709.00	
		<hr/>
		\$255,709.00

City Hall.

Appropriation	\$3,800.00	
Transferred from unappropriated money . . .	194.59	
	<hr/>	\$3,994.59

EXPENDITURES.**FUEL AND LIGHTS.**

L. B. Bodwell & Co., coal	\$210.00	
C. H. Bodwell, wood	38.50	
Manchester Coal and Ice Co., coal	44.61	
Manchester Traction, Light and Power Co., lights	587.60	
A. D. Maxwell estate, wood	8.25	
Moore & Preston, Welsh coal	309.26	
People's Gas Light Co., gas	102.14	
D. M. Poore, Welsh coal	271.89	
Raiche & Laforce, wood	56.50	
	<hr/>	\$1,628.75

WATER AND TELEPHONE.

New England Telephone & Telegraph Co., use of telephones	\$62.89	
Water Commissioners, use of water	279.50	
	<hr/>	\$342.39

CLEANING OFFICES, ETC.

Gedeon Lesage, services as janitor	\$28.00	
Manchester Hardware Co., rope, dusters, brooms, sponges, etc.	22.90	
Plate glass shelves	16.00	
Sarah Minton, cleaning	313.00	
J. K. Rhodes, janitor public comfort	130.66	
Henry Shea estate, services as janitor	14.67	
Timothy Sullivan, janitor public comfort . . .	336.00	
Frank St. John, janitor	755.00	
The Talbot Co., disinfectant	18.00	
John B. Varick Co., pail, sponges, hammer, etc.	3.25	
J. H. Wiggin & Co., matches	1.60	
	<hr/>	\$1,639.08

FIXTURES AND SUPPLIES.

E. M. Bryant & Co., lamps	\$1.00
James W. Hill Co., flag, cheese cloth, etc. . . .	9.25
A. K. Hobbs, hose	2.75

R. D. Gay, shades, putting up and taking down awnings, etc.	\$86.91	
W. P. Goodman, directories, diaries	68.00	
Manchester Traction, Light & Power Co., lamps	4.26	
People's Gas Light Co., mantles, gas stove . .	3.80	
John B. Varick Co., water cooler, thermometer	4.85	
		<hr/>
		\$180.82

INCIDENTAL REPAIRS.

J. J. Abbott, paint, glass, labor	\$75.18	
E. M. Bryant & Co., electrical repairs	2.25	
Finney & Parker, reseating chair . . . . .	.75	
James W. Hill Co., repairing flags	9.75	
George Holbrook, taking off and putting on doors	3.50	
T. A. Lane Co., material and labor on electric lights and plumbing	58.98	
Pike & Heald Co., repairing awning frame . .	1.49	
Harry A. Piper, table, etc.	2.70	
B. F. Shepard, sundry repairs	3.95	
C. A. Trefethen, pulley for clock	5.00	
C. H. Wood, painting and varnishing	3.50	
		<hr/>
		\$167.05

SUNDRIES.

W. G. Berry, insurance premium	\$36.50	
		<hr/>
Total expenditures	\$3,994.59	<hr/> <hr/>

Printing and Stationery.

Appropriation	\$1,850.00	
Transferred from unappropriated money . . .	63.45	
		<hr/>
		\$1,913.45
		<hr/> <hr/>

EXPENDITURES.

ASSESSORS AND INSPECTORS.

John B. Clarke Co., printing circulars, blanks, check-lists, etc.	\$401.75	
Temple & Farrington Co., stationery	20.86	
		<hr/>
		\$422.61

TAX COLLECTOR.

John B. Clarke Co., printing notices	\$1.50	
Independent Statesman, advertising tax list. .	12.00	
A. E. Martell & Co., books	7.50	
Temple & Farrington Co., stationery and books	2.08	
	<hr/>	\$23.08

CITY CLERK.

John B. Clarke Co., printing blanks, etc. . . .	\$14.75	
W. P. Goodman, stationery	9.25	
Novelty Advertising Co., license blanks . . .	7.75	
Temple & Farrington Co., paper	4.00	
	<hr/>	\$35.75

CITY AUDITOR.

John B. Clarke Co.:		
Printing 500 reports	\$998.58	
Binding reports, 1900	86.25	
Binding reports, 1901	207.25	
Lettering reports	6.30	
J. A. Williams, printing bonded debt statements	5.00	
	<hr/>	\$1,303.38

CITY TREASURER.

American Bank Note Co., 80 lithographed bonds	\$70.00	
W. P. Goodman, stationery	1.15	
E. A. Stratton, book and paper	1.65	
J. A. Williams, printing circulars, postals . .	7.75	
	<hr/>	\$80.55

MAYOR.

W. P. Goodman, diaries, stationery	\$3.83	
E. A. Stratton, carbon paper	1.00	
Temple & Farrington Co., stationery	8.25	
	<hr/>	\$13.08

CITY COUNCILS AND COMMITTEES.

John B. Clarke Co., printing notices, statements	\$22.00	
W. P. Goodman, stationery . . . . .	.50	
Novelty Advertising Co., printing reports, blanks, etc.	12.50	
	<hr/>	\$35.00

Total expenditures	<hr/> <hr/>	\$1,913.45
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Incidental Expenses.

Appropriation	\$8,500.00
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EXPENDITURES.**BIRTHS, MARRIAGES, DEATHS.**

O. D. Abbott, M. D.	\$2.25
D. S. Adams, M. D.	2.50
John C. Bickford, coroner	1.00
H. T. Boutwell, M. D. . . . .	.25
H. W. Boutwell, M. D.	5.25
A. A. E. Brien, M. D.	25.75
J. F. Brown, M. D.	1.25
J. S. Brown, M. D.	4.00
L. G. Bullock, M. D.	1.75
H. B. Burnham, M. D. . . . .	.25
I. L. Carpenter, M. D.	7.25
Charles Chirurg, M. D.	4.50
Herman Christophe, M. D.	3.00
J. M. Collity, M. D.	21.75
Walter T. Crosby, M. D.	3.00
E. H. Currier, M. D.	3.25
Mary Danforth, M. D.	8.50
G. M. Davis, M. D.	7.75
J. H. Degross, M. D.	5.00
R. H. Dillon, M. D.	9.75
H. H. Dinsmore, M. D. . . . .	.25
C. E. Dodge, M. D.	4.25
C. M. Dodge, M. D.	6.00
John F. Dowd, M. D.	3.50
E. B. Dunbar, M. D.	13.00
John D. Ferguson, M. D.	8.75
C. F. Flanders, M. D.	25.50
George Frechette, M. D.	13.75
L. M. French, M. D.	1.25
E. N. Fugere, M. D.	32.75
John H. Gleason, M. D.	3.00
Moise Guerin, M. D.	18.25
Noel E. Guillet, M. D.	1.25
Max Guggenheim, M. D.	1.00
J. A. Harlan, M. D. . . . .	.25
Thomas C. Hill, M. D.	12.00
B. F. Hodsdon, M. D.	9.75
George B. Hoitt, M. D.	1.50

J. A. Jackson, M. D.	\$8.25
M. E. Kean, M. D.	15.25
J. J. A. Labrecque, M. D.	2.00
P. G. Laberge, M. D.	42.50
Gustave Lafontaine, M. D.	22.50
J. E. A. Lanouette, M. D.	36.75
E. Larochelle, M. D.	43.25
J. E. Lemaitre, M. D.	8.50
J. D. Lemay, M. D.	11.75
J. G. Lussier, M. D.	6.00
H. D. Lord, coroner	6.25
J. D. W. McDonald, M. D.	43.25
G. B. Morey, M. D.	3.00
Jacob W. Moorar, M. D. . . . .	.25
M. V. B. Morse, M. D.	2.00
John T. Murray, M. D.	6.00
Mrs. S. Modin	1.50
Clara Odman	6.50
W. H. Pattee, M. D.	6.75
Frederick Perkins, M. D.	6.00
Anna Pollmer	19.00
Wm. Richardson, M. D. . . . .	.50
J. F. Robinson, M. D.	3.25
C. S. Rodier, M. D.	8.25
J. E. E. Roy, M. D.	1.25
Nicholas Sasseville, M. D.	19.00
Annie Schelzel . . . . .	.75
Vladimir Sikorsky, M. D. . . . .	.25
Servule St. Pierre, M. D.	15.25
Gillis Stark, M. D.	8.00
F. C. Stuart, M. D.	9.00
A. G. Straw, M. D.	1.25
Zatae L. Straw, M. D.	12.50
C. B. Sturtevant, M. D.	2.25
Emile Sylvain, M. D.	25.00
James Sullivan, M. D.	2.25
E. B. Swett, M. D. . . . .	.25
Joseph Taylor, M. D.	6.50
A. J. Todd, M. D.	3.00
George B. Towne, M. D.	5.00
E. C. Tremblay, M. D. . . . .	.75
Ellen A. Wallace, M. D. . . . .	.75
R. W. Weeks, M. D.	2.25
G. M. Watson, M. D.	26.25
H. P. Watson, M. D.	3.00
Maurice Watson, M. D. . . . .	.75
G. L. Wakefield, M. D. . . . .	.50

Arthur F. Wheat, M. D.	\$5.25
H. A. White, M. D.	6.75
Rev. C. A. Bidwell	2.50
Rev. A. E. Bartlett	3.00
Rev. C. R. Bailey	2.00
Rev. James H. Brennan	19.00
Rev. J. N. Bjork	50
Rev. T. J. Campbell . . . . .	.25
Rev. Andreas Carlsson	1 50
Rev. Thomas Chalmers	1.50
Rev. J. A. Chevalier	15.25
Rev. N. L. Colby	12.50
Rev. Matthew Creamer	1.00
Rev. I. H. C. Davignon	17.25
Rev. William Diehl . . . . .	.25
Rev. Chas. H. Farnsworth	2.00
Rev. G. A. Guertin	1.25
Rev. J. W. Goodwin . . . . .	.50
Rev. Arthur Halfmann	1.25
Rev. P. Hevey	11.25
Rev. William Hutchins . . . . .	.25
Rev. N. E. Johnson	1.25
Rev. W. N. Jones	3.00
Rev. John Kamm	1.00
Rev. J. J. Lyons	7.50
Rev. P. Lawrence	3.75
Rev. J. B. Lemon	4.00
Rev. B. W. Lockhart	2.00
Rev. D. J. Many, Jr. . . . .	.50
Rev. S. J. McLaughlin	6.00
Rev. Edwin Morrell	1.00
Rev. E. J. Palisoul . . . . .	.50
Rev. O. D. Patch	1.50
Rev. Samuel Russell	1.75
E. C. Smith, city clerk	7.00
Rev. C. J. Staples	1.00
Rev. C. N. Tilton	1.25

 \$877.00

DAMAGES AND JUDGMENTS.

James F. Baldwin	\$178.36
Mary Cahill	95.00
James A. Colby	100.00
Frank I. Paige	25.00
James M. Smith	5.50
Arthur J. Todd, M. D.	75.00

INCIDENTAL EXPENSES.

39

W. E. Warren, guardian	\$3.25	
F. W. & W. D. Walcott	75.00	
		<hr/>
		\$878.86

LEGAL EXPENSES.

John A. Barker, serving legal notice	\$ 2.00	
Brown, Herriek & Cochran, services and expenses, <i>McCrillis v. City</i>	127.80	
Arthur O. Fuller, services, <i>Amoskeag Manufacturing Co. v. City</i>	1,840.70	
Edwin F. Jones, services	397.00	
Dana W. King, recording deeds, examining records	2.79	
Henry N. Hurd, taking depositions, <i>Gibbs v. City</i>	10.00	
Thomas D. Luce, copies of record	8.90	
John F. Madden, stenographer, <i>Gibbs v. City</i>	3.00	
		<hr/>
		\$2,302.19

CITY COUNCILS AND COMMITTEES.

F. L. Allen, expenses to Boston, Concord . . .	\$27.27	
John B. Clarke Co., advertising notices . . .	33.38	
Printing postals, notices, etc.	4.50	
Manchester News Co., advertising notice, dog licenses	29.25	
New England Telephone & Telegraph Co., use of telephone	19.18	
Union Publishing Co., advertising notices . . .	36.66	
		<hr/>
		\$150.24

PREMIUM ON INSURANCE POLICIES.

W. G. Berry	\$60.00	
George Blanchet	30.00	
Robert R. Chase	60.00	
DeCourcy & Holland	60.00	
John Dowst	60.00	
C. M. Edgerly	120.00	
Everett & Scott	60.00	
Fred R. Stark	30.00	
John A. Sheehan	180.00	
		<hr/>
		\$660.00

TEAMS FOR COUNCILS AND COMMITTEES.

G. W. Bailey	\$31.50
Boyd Brothers	15.00
J. P. Brown & Co.	15.00

REPORT OF THE CITY AUDITOR.

J. P. Brown	\$5.00	
H. R. Dow & Co.	64.00	
C. F. Fifield	10.00	
W. J. Freeman	20.00	
A. L. Gadbois & Co.	35.00	
Harry F. Hull	5.00	
Kean & Sheehan	5 00	
Manchester Street Railway.	137.50	
G. W. Reed	10.00	
C. H. Simpson	15.00	
	<hr/>	\$368.00

CITY LIBRARY.

Pike & Heald Co., 1 flue brush	\$0.55	
J. K. Rhodes, care of boiler	138.50	
	<hr/>	\$139.05

CITY SCALES.

C. H. Bodwell, wood	\$0.69	
L. B. Bodwell & Co., wood and coal	20.25	
W. E. Woodward, wood	25	
	<hr/>	\$21.19

MAYOR.

J. J. Holland, soap	\$0 65	
John B. Hall Co., thermometer	1.75	
Pears' soap . . . . .	.75	
E. A. Stratton, paper	3.55	
Temple & Farrington Co, pamphlet laws	1.00	
rubber bands . . . . .	.25	
	<hr/>	\$7.95

TAX COLLECTOR.

E. H. Clough, envelopes	\$21.20	
John B. Clarke Co., advertising "non-resident sale"	27.41	
Printing bills and receipts	62.50	
W. P. Goodman, stationery	2.40	
George E. Morrill, paid for delivering tax bills	73.50	
Novelty Advertising Co., ribbons for stamp . . . . .	.75	
Star Stamp Co., handle, pad . . . . .	.75	
E. A. Stratton, book, fountain pen	11 00	
Temple & Farrington Co., 1 copy interest tables	1.00	
Stationery	1.46	
	<hr/>	\$201.97

INCIDENTAL EXPENSES.

41

CITY CLERK.

Elliott & Hatch Book Typewriter Co., exchange on typewriters	\$75.00	
Ribbons	9 25	
Hammond Typewriter Co., ribbon	1.50	
Herbert Marr, ink set	1.00	
New England Telephone & Telegraph Co., use of telephone	15.33	
Temple & Farrington Co., books and stationery	43.75	
G. P. Wallace, ribbon	1.00	
Whiting & Thomson, 1 brush	2 50	
	<hr/>	\$149.33

CITY TREASURER.

Boston News Bureau, subscription to magazine to December 13, 1902	\$18.40	
W. P. Goodman, books and stationery	7.90	
The J. C. Hall Co., lithographed checks . . .	15.00	
Ideal Desk Extension Co., 1 desk extension . .	4.55	
C. A. Hoitt & Co., chairs and cushions	10.50	
A. E. Martell & Co., 1 letter book	3.50	
Francis Pratt, pens	3.00	
E. A. Stratton, books and stationery	26.50	
Temple & Farrington Co., covers . . . . .	.90	
Wyckoff, Seamans & Benedict, typewriter, chair, cabinet, ribbon	124.10	
	<hr/>	\$214.35

COURT HOUSE.

C. H. Bodwell, wood	\$30.25	
L. B. Bodwell & Co., coal	34.00	
W. E. Dunbar & Son, wood	4.00	
Manchester Coal & Ice Co., coal	145.33	
Moore & Preston, Welsh coal	257.28	
P. H. Riley, services as janitor	600.00	
John B. Varick Co., sharpening lawn mower	3.00	
	<hr/>	\$1,073.86

ASSESSORS.

John B. Clarke Co., advertising	\$20.00	
Printing lists	10.75	
John F. Gillis, real estate transfers	18.00	
Pike & Heald Co., mantles	2.10	
Temple & Farrington Co., books and stationery	86.82	
	<hr/>	\$137.67

SOLICITOR.

Little, Brown & Co., municipal law books . .	\$24.00	
New England Telephone & Telegraph Co., use of telephone	24.33	
George A. Wagner, expenses, sundry places . .	10.28	
		<hr/>
		\$58.61

ELECTION EXPENSES.

D. G. Andrews, material and labor, ward 2 . .	\$12.50	
O. F. Bartlett & Co., putting up stove, gas pipe, etc., ward 2	10.88	
Boyd Brothers, use of hack	5.00	
Bunton & Bernard, setting up booths and rails, ward 6	22.00	
C. B. Clarkson, cleaning ward room, oil, stationery, ward 4	3.80	
W. B. Corey Transfer Co., trucking booths . .	3.00	
Connor Brothers, putting up voting booths, etc., ward 5	16.86	
L. W. Dolloff, trucking ballots, postage, ward 6	2.50	
G. H. Dudley, board for check-lists	3.00	
D. O. Fernald, storage of booths two years, ward 3	12.00	
W. J. Freeman, use of team, ballots for ward 5	1.00	
A. L. Gadbois & Co., use of hack	5.00	
W. P. Goodman, stationery, etc.	17.95	
Head & Dowst Co., lumber and labor, wards 2, 5, 7	40.73	
H. F. W. Little, material and labor on booths, ward 3	9.82	
J. Y. McQueston Co., rent of tables and chairs	1.00	
E. H. Nutting, use of Mechanics' hall	100.00	
G. W. Reed, use of hack	5.00	
E. A. Stratton, books and stationery	36.23	
David Wadsworth, rent wardroom, ward 10 . .	35.00	
		<hr/>
		\$343.27

SUNDRIES.

A. F. Abbott, V. S., examining glandered horses	\$5.00
American Express Co., express on reports . .	5.48
Amoskeag National Bank, rent, safety deposit box	25.00
E. H. Clough, postage stamps	50.00
Orin T. Clark, sheep killed	15.40
A. L. Dodge, V. S., examining glandered horse	2.00
J. G. Ellinwood, photographs	5.00

CITY OFFICERS' SALARIES.

43

First Light Battery, firing salute, July 4 . . .	\$34.25	
M. Hoben, rent of barn	4.00	
O. D. Knox, postage stamps	75.00	
E. F. McQuesten, [M. D., examination and court attendance, Sheehan v. City	75.00	
Walter M. Parker, refund on sewer license, paid by Carl Roth	15.00	
Frederick Perkins, M. D., examination and court attendance	40.00	
George D. Towne, M. D., examination and court attendance	35.00	
Town of Goffstown, taxes	2.70	
H. H. Young, sheep and hog killed by dogs .	70.20	
		<hr/>
		\$459.03
		<hr/>
Total expenditures		\$8,042.57
Transferred to unappropriated money		457.43
		<hr/>
		\$8,500.00
		<hr/>

City Officers' Salaries.

Appropriation	\$27,900.00	
Transferred from unappropriated money . .	374.41	
	<hr/>	\$28,274.41
		<hr/>

EXPENDITURES.

CENTRAL DEPARTMENT.

William C. Clarke, mayor	\$1,800.00
Fred L. Allen, treasurer	1,350.00
Edward C. Smith:	
City clerk	1,350.00
Clerk of committees	200.00
George E. Morrill:	
Tax collector	1,350.00
Team	150.00
E. C. Paul, deputy collector	799.96
Jean B. Guevin, deputy collector	799.96
George A. Wagner, solicitor	800.00
Harry A. Piper, clerk common council . . .	200.00
L. M. Aldrich, building inspector	950.00
J. H. Geisel, milk inspector	375.00
John A. Barker, messenger	700.00
Gilbert Lyons, city weigher	400.00

REPORT OF THE CITY AUDITOR.

C. B. Clarkson, weigher	\$13.30
Mabel L. How, treasurer's clerk	598.75
Florence A. Robinson, city clerk's clerk . . .	520.00
Maude E. Soule, mayor's clerk	572.00
S. Louise Hill, labor in collector's office . . .	2.50
Lilla Riley, labor in collector's office	38.43
	<hr/>
	\$12,969.90

CITY PHYSICIAN AND OVERSEERS OF POOR.

Frederick Perkins, M. D., city physician . .	\$600.00
George E. Davis, ward 1	50.00
Daniel G. Andrews, ward 2	50.00
B. F. Garland, ward 3	50.00
Charles B. Clarkson, ward 4	50.00
Thomas F. Sheehan, ward 5	50.00
Charles Francis, ward 6	50.00
William Marshall, ward 7	50.00
Henry Lein, ward 8	50.00
Thomas C. Stewart, ward 9	50.00
J. H. McKenzie, ward 10	50.00
W. H. Maxwell, clerk	125.00
William C. Clarke, chairman <i>ex officio</i>	50.00
	<hr/>
	\$1,275.00

SCHOOL OFFICERS AND BOARD OF SCHOOL COMMITTEE.

Charles W. Bickford, school superintendent .	\$2,300.00
Curtis W. Davis, truant officer	850.00
E. C. Lambert, clerk of board	150.00
William C. Clarke, chairman, <i>ex officio</i>	10.00
Harry T. Lord, president of common council, <i>ex officio</i>	10.00
E. C. Lambert, ward 1	10.00
Walter B. Heath, ward 1	10.00
Charles H. Manning, ward 2	10.00
Will C. Heath, ward 2	10.00
Louis E. Phelps, ward 3	10.00
George D. Towne, ward 3	10.00
Nathaniel L. Colby, ward 4	10.00
George F. Soule, ward 4	10.00
John T. Kelley, ward 5	10.00
D. A. McAuliffe, Ward 5	10.00
Eugene B. Dunbar, ward 6	10.00
Harry L. Davis, ward 6	10.00
Edson S. Heath, ward 7	10.00
E. B. Woodbury, ward 7	10.00
Walter B. Mitchell, ward 8	10.00

CITY OFFICERS' SALARIES.

45

Benjamin Price, ward 8	\$10.00
Sabin Nourry, ward 9	10.00
Henry I. Lemay, ward 9	10.00
Harry H. Burpee, ward 10	10.00
Mark E. Harvey, ward 10	10.00
	<hr/>
	\$3,520.00

BOARD OF ASSESSORS.

John L. Sanborn, ward 1	\$132.50
John K. Wilson, ward 2	214.50
D. O. Fernald, ward 3	975.00
Harrison D. Lord, ward 4	446.50
George F. Sheehan, ward 5	230.00
Leroy M. Streeter, ward 6	297.75
Robert Leggett, ward 7	137.50
Eugene W. Brigham, ward 8	820.00
Denis Vigneault, ward 9	150.00
Albert J. Peaslee, ward 10	199.50
C. W. Brown, assistant	137.50
Asa B. Eaton, assistant	67.50
Robert Edgar, assistant	72.50
Henry F. Stone, assistant	72.50
C. M. Woodbury, assistant	72.50
H. J. Woods, assistant	72.50
Harvey L. Currier, clerical services	265.00
Fred Currier, clerical services	237.50
G. H. Dudley, clerical services	87.50
Arthur W. Rowell, clerical services	380.00
George Taylor, clerical services	75.00
W. E. Bernard, interpreter	57.50
J. Z. Y. Bernard, interpreter	81.50
C. D. Gadbois, interpreter	35.00
J. B. Rejimbail, interpreter	104.00
	<hr/>
	\$5,421.25

BOARD OF ALDERMEN.

John P. Mullen, ward 1	\$200.00
Fred K. Ramsey, ward 2:	
1901	14.00
1902	174.00
William F. Elliott, ward 3	200.00
Charles J. Darrah, ward 4	200.00
D. A. Murphy, ward 5	200.00
Samuel M. Couch, ward 6	200.00
Samuel F. Davis, ward 7	200.00

REPORT OF THE CITY AUDITOR.

G. Walter Taylor, ward 8	\$200.00	
Mederique R. Maynard, ward 9	200.00	
Eugene E. Reed, ward 10:		
1901	9.00	
1902	171.00	
		<u>\$1,968.00</u>

ELECTION EXPENSES.

Inspectors of Check-lists.	\$1,913.76	
Election inspectors	400.00	
Moderators	150.00	
Ward clerks	200.00	
Selectmen.	446.50	
Alfred Paquette, Jr., interpreter.	10.00	
		<u>\$3,120.26</u>
Total expenditures.		<u><u>\$28,274.41</u></u>

Auditor's Department.

Appropriation	<u><u>\$2,500.00</u></u>
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EXPENDITURES.

LABOR.

James E. Dodge, salary as auditor	\$1,200.00	
Lizzie M. Cogswell, services as clerk.	662.50	
		<u>\$1,862.50</u>

SUPPLIES.

L. B. Bodwell & Co., ice	\$7.80
Clark Brothers, 1 cabinet	2.00
John B. Clarke Co., printing letter headings, etc	4.00
Lizzie M. Cogswell:	
Laundry	3.00
Stationery, express, postage, postals, etc	15.63
James E. Dodge, paid for delivering reports, expenses to Boston, fountains for pens	6.00
A. L. Franks & Co., 1 lamp	5.95
W. P. Goodman, stationery	8.05
A. K. Hobbs, oil cloth . . . . .	.13
O. D. Knox, postal cards.	2.00

AUDITOR'S DEPARTMENT.

47

T. A. Lane Co., 1 Kinsmann lamp	\$8.00	
Municipal Journal and Engineer, 1 subscrip- tion to December 1, 1902	3.00	
The Novelty Co., repairing stamp	1.45	
Pneumatic Hand Stamp Co., 1 stamp	1.09	
E. A. Stratton, 1 book case	9.25	
E. L. Sibley, eyelet press and eyelets	7.00	
Temple & Farrington Co., books and paste	25.86	
John B. Varick Co.:		
Pail, door caps, etc	1.03	
2 Morris-Ireland safes	330.00	
G. P. Wallace, carbon paper	3.00	
Whiting & Thomson, 1 brush	2.50	
J. A. Williams, printing	1.50	
C. A. Wood, varnishing cabinet . . . . .	.50	
		<hr/>
		\$448.74
		<hr/>
Total expenditures		\$2,311.24
Transferred to unappropriated money		188.76
		<hr/>
		\$2,500.00
		<hr/>

Mayor's Incidentals.

Appropriation	<hr/>	\$300.00
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EXPEDITURES.

William C. Clarke, incidentals	\$205.00	
Chas. S. Fifield, use of team	5.00	
	<hr/>	\$210.00

PRESIDENT'S RECEPTION.

G. W. Bailey, use of team	\$2.50
J. P. Brown & Co., use of team	2.50
Boyd Brothers, carriage and horses	11.65
H. R. Dow & Co, use of team	2.50
L. J. Farrell, use of horse	3.00
W. J. Freeman, use of team	2.50
First Light Battery, firing salute	7.60
A. L. Gadbois & Co, use of team	2.50
Harry F. Hull, use of team	2.50

REPORT OF THE CITY AUDITOR.

G. W. Reed, use of team	\$2.50	
C. H. Simpson, use of team	2.50	
E. V. Turcotte, use of teams	5.00	
		<hr/>
		\$47 25
Total expenditures		\$257.25
Transferred to unappropriated money		42 75
		<hr/>
		\$300.00
		<hr/>

Street and Park Commission.

Appropriation	<hr/>
	\$3,500.00
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EXPENDITURES.

SALARIES.

H. P. Simpson, chairman	\$600.00	
G. H. Stearns	600.00	
Byron Worthen	600.00	
		<hr/>
		\$1,800.00

CLERICAL SERVICES.

Ethel Nicholson	\$18.00	
G. H. Stearns	468.00	
Bertha Whitney	471.50	
		<hr/>
		\$957.50

USE OF TEAMS.

H. P. Simpson	\$150.00	
G. H. Stearns	150.00	
Byron Worthen	150.00	
		<hr/>
		\$450.00

OFFICE SUPPLIES.

Barton & Co., portiere, pole, etc	\$3.55	
L. B. Bodwell & Co., ice	6.75	
John B. Clarke Co., printing 150 reports . .	18.60	
E. R. & W. P. Coburn, frames and hooks . .	2.90	
Head & Dowst Co., pine . . . . .	.18	
O. D. Knox, stamped envelopes	21.20	
Nate Kellogg Co., printing orders	2.50	
Municipal Journal & Engineer, subscription to March, 1903	3.00	

New England Telephone & Telegraph Co., use of telephone	\$19.70	
H. A. Piper, material and labor	28.80	
James A. Scully, 1 rug	15.00	
E. A. Stratton, books	1.10	
Temple & Farrington Co., books and stationery	58.48	
G. P. Wallace, typewriter ribbon	1.00	
F. J. Walker, repairing desk . . . . .	.75	
	<hr/>	\$183.51
Total expenditures		\$3,391.01
Transferred to unappropriated money		108.99
		<hr/>
		\$3,500.00
		<hr/>

Repairs of Highways.

Appropriation	\$25,000.00	
Cash received from sundry persons	303.35	
Transferred from unappropriated money	4,191.14	
	<hr/>	\$29,494.49
		<hr/>

EXPENDITURES.

LABOR.

Division No. 2:		
January	\$24.00	
March	503.98	
April	1,294.22	
May	1,717.38	
June	2,095.27	
July	2,604.16	
August	968.99	
September	1,141.88	
October	947.30	
November	1,055.51	
	<hr/>	\$12,352.69
Division No. 4:		
March	\$60.37	
May	166.37	
November	82.50	
	<hr/>	\$309.24

Division No. 5:

March	\$19.50	
April	105.50	
May	105.24	
June	46.50	
July	12.50	
August	62.37	
September	105.62	
November	25.75	
	<hr/>	\$482.98

Division No. 7:

January	\$26.00	
March	99.62	
April	798.50	
May	679.52	
June	618.08	
July	564.24	
August	759.32	
September	760.77	
October	176.75	
November	152.37	
	<hr/>	\$4,635.17

Division No. 8:

March	\$66.74	
April	57.24	
May	324.13	
June	513.22	
July	388.25	
August	260.00	
September	193.26	
October	285.50	
November	72.63	
	<hr/>	\$2,160.97

Division No. 9:

April	\$93.75	
May	85.25	
June	114.75	
August . . . . .	.75	
October	188.50	
	<hr/>	\$483.00

Division No. 10:

January	\$92.87	
February	25.75	
March	286.25	

REPAIRS OF HIGHWAYS.

51

April	\$973.12	
May	1,069.92	
June	1,031.23	
July	829.83	
August	468.87	
September	389.49	
October	444.86	
November	460.21	
	<hr/>	\$6,072.40

LUMBER.

Head & Dowst Co	\$31.06	
John St. Francis	196.00	
West Side Lumber Co	218.46	
	<hr/>	\$445.52

TOOLS AND HARDWARE.

J. Hadlock	\$40.60	
Manchester Hardware Co . . . . .	.70	
John B. Varick Co	130.15	
	<hr/>	\$171.45

BLACKSMITHING AND REPAIRS.

John T. Beach, repairs	\$34.05	
James H. Cram, blacksmithing	9.23	
T. A. Lane Co., material and labor	76.94	
Pike & Heald Co., material and labor	12.22	
Robie Consolidated Concrete Co., repairs	2,079.71	
C. L. Wolf, repairing railing, etc	6.50	
	<hr/>	\$2,218.65

GRAVEL, CLAY, ETC.

Leon B. Annis, gravel	\$9.90	
L. B. Bodwell, gravel	6.00	
Boyce & Merrill, gravel . . . . .	.70	
Byron Corning, gravel	10.30	
Mark E. Harvey, gravel	11.00	
Eugene Libbey, gravel	7.70	
John Lovering, gravel	6.80	
James M. Lurvey, gravel	2.50	
J. F. Moore, clay	4.00	
Henry W. Parker, lime	2.85	
L. C. Paige, gravel	28.80	
N. W. Paige, gravel	4.10	
	<hr/>	\$94.65

SUNDRIES.

J. H. Campbell, use of water	\$3.00	
Mrs. Samuel Caldwell, 17 dinners	6.80	
New England Telephone & Telegraph Co., use of telephone	36.13	
Wiggin-Young Co., wicks and oil	21.84	
	<hr/>	\$67.77
Total expenditures		<hr/> <hr/> \$29,494.49

New Highways.

Appropriation	<hr/> <hr/> \$7,000.00
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EXPENDITURES.

LABOR.

Division No. 2:

April	\$627.52	
June	392.10	
July	624.12	
August	539.35	
September	687.51	
October	97.36	
November	92.28	
December	10.13	
	<hr/>	\$3,070.37

Division No. 7:

May	\$148.50	
June	452.51	
July	517.22	
	<hr/>	\$1,118.23

Division No. 10:

July	\$106.00	
August	61.12	
September	263.50	
October	66.00	
November	77.00	
	<hr/>	\$573.62

SNOW AND ICE.

53

SUNDRIES.

L. B. Bodwell & Co., coal	\$12.00	
John B. Varick Co., hardware	21.04	
		<hr/>
		\$33.04
		<hr/>
Total expenditures		\$4,795.26
Transferred to unappropriated money		2,204.74
		<hr/>
		\$7,000.00
		<hr/> <hr/>

Snow and Ice.

Appropriation	<hr/>	\$6,500.00
		<hr/> <hr/>

EXPENDITURES.

LABOR.

Division No. 2:

January	\$11.98	
February	596.10	
March	411.51	
June	63.62	
September	19.00	
November	54.75	
December	513.87	
		<hr/>
		\$2,470.83

Division No. 4:

February	\$34.50
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Division No. 5:

January	\$2.00	
February	34.50	
December	6.00	
		<hr/>
		\$42.50

Division No. 7:

January	\$107.37	
February	136.12	
March	149.50	
December	59.87	
		<hr/>
		\$452.86

Division No. 8:

January	\$3.50	
February	32.50	
December	29.50	
		<hr/> \$65.50

Division No. 9:

February	\$58.00	
December	52.75	
		<hr/> \$110.75

Division No. 10:

January	\$329.24	
February	318.73	
March	300.48	
April	3.25	
November	14.75	
December	316.93	
		<hr/> \$1,283.38

SUNDRIES.

A. B. Black, runners for road machine	\$50.00	
Daniels-Cornell Co., salt	6.00	
Head & Dowst Co., lumber and labor, snow plows	12.86	
John B. Varick Co., scoops, shovels, etc. . . .	64.80	
Wiggin-Young Co., glass, salt, matches, nails	1.91	
		<hr/> \$133.57
Total expenditures	\$4,595.89	
Transferred to unappropriated money	1,904.11	
		<hr/> \$6,500.00
		<hr/> <hr/>

Damage of Land Taken for Highways.

Transferred from unappropriated money account	\$5,008.07	
		<hr/> <hr/>
EXPENDITURES.		
Harvey Goodwin, settlement of claim	\$100.00	
		<hr/>
Total expenditures	\$100.00	
Transferred to new account	4,908.07	
		<hr/> \$5,008.07
		<hr/> <hr/>

Watering Streets.

Appropriation	\$4,700.00
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EXPENDITURES.

LABOR.

Division No. 2:

April	\$139.43	
May	385.67	
June	317.87	
July	412.50	
August	429.88	
September	325.74	
October	74.75	
November	1.63	
December	33.50	
		\$2,120.97

Division No. 10:

January	\$14.50	
February	6.75	
April	90.00	
May	179.31	
June	122.75	
July	144.50	
August	138.00	
September	143.25	
October	32.50	
November	5.25	
December	11.12	
		\$887.93

SUPPLIES AND REPAIRS.

John T. Beach, repairs	\$71.80	
T. A. Lane Co., pipe and labor	20.44	
J. L. & H. K. Potter, washers, valves, etc. . .	4.44	
Sullivan & McGovern, granite fountain base	17.00	
John B. Varick Co., paint, hardware	20.18	
		\$133.86

Total expenditures	\$3,142.76
Transferred to unappropriated money	1,557.24
	<u>\$4,700.00</u>

Paving Streets.

Appropriation	\$4,500.00	
Transferred from unappropriated money . . .	768.58	
	<hr/>	<u>\$5,268.58</u>

EXPENDITURES.

LABOR.

Division No. 2:

March	\$9.13	
April	218.38	
May	273.39	
June	460.42	
July	513.75	
August	140.88	
September	140.75	
October	70.12	
November	47.25	
	<hr/>	\$1,874.07

Division No. 7:

April	\$47.75	
May	90.61	
June	82.25	
July	75.64	
August	7.00	
November	11.31	
	<hr/>	\$314.56

Division No. 10:

April	\$59.37	
May	502.06	
June	430.61	
July	500.60	
August	163.86	
September	103.50	
October	7.37	
	<hr/>	\$1,767.37

Soule, Dillingham & Co.	\$956.21
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STONE AND CONCRETE.

Brooks and Brock, stone	\$8.50	
James M. Lurvey, stone	5.00	
Robie Consolidated Concrete Co., concrete . .	342.87	
	<hr/>	\$356.37
Total expenditures		<u>\$5,268.58</u>

Paving Elm Street.

Appropriation	\$12,000.00	
Received from Manchester Street Railway . .	4,534.86	
	<hr/>	\$16,534.86

EXPENDITURES.**LABOR.**

Division No. 2:		
May	\$371.95	
June	453.88	
July	524.29	
August	101.22	
September	213.00	
	<hr/>	\$1,664.34
Division No. 10:		
May	\$97.58	
June	121.49	
July	142.47	
	<hr/>	\$361.54
Soule, Dillingham & Co.		\$3,390.01

STONE AND CEMENT.

C. A. Bailey, stone	\$9,741.55	
Head & Dowst Co., cement	1,376.64	
	<hr/>	\$11,118.19
Total expenditures		\$16,534.08
Transferred to unappropriated money . . . . .		.78
		<hr/>
		\$16,534.86

Paving Canal Street.

Appropriation	\$4,000.00	
Transferred from unappropriated money . . .	221.57	
	<hr/>	\$4,221.57

EXPENDITURES.**LABOR.**

Division No. 2:		
August	\$156.05	
Cavanaugh Brothers		\$497.74

STONE.

Charles A. Bailey	\$3,567.73
Total expenditures	<u>\$4,221.57</u>

Macadamizing Streets.

Appropriation	\$10,000.00
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EXPENDITURES.

LABOR.

Division No. 2:

July	\$814.02	
August	946.28	
September	202.61	
		<u>\$1,962.91</u>

Division No. 7:

November	\$1.75
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Division No. 10:

July	\$5.50	
August	113.50	
September	732.10	
		<u>\$851.10</u>

Soule, Dillingham & Co.	\$96.78
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FUEL, FREIGHT, WATER.

C. H. Bodwell, wood	\$396.00	
L. B. Bodwell & Co., coal	13.50	
Boston & Maine R. R., freight	2.98	
People's Gas Light Co., coke	9.00	
Water Commissioners, use of water	70.00	
		<u>\$491.48</u>

TOOLS AND HARDWARE.

John B. Varick Co.	\$435.42
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CASTINGS, REPAIRS, ETC.

C. A. Bailey, paving stone	\$464.64
A. B. Black, supplies for road machine	316.61
C. A. Chamberlain, repairing steam drill	2.80

GRADING FOR CONCRETE.

59

A. K. Hobbs, packing, tacks, cement	\$47.67	
Ingersoll-Sergeant Drill Co., supplies	33.65	
T. A. Lane Co., plugs, couplings, etc.	6.03	
Pike & Heald Co., repairs	13.80	
G. W. Rief, belt dressing	2.50	
Robie Consolidated Concrete Co., concrete	1,684.25	
R. P. Stevens Co., stone chips	4.00	
		<hr/>
		\$2,575.95
		<hr/>
Total expenditures		\$6,415.39
Transferred to unappropriated money		3,584.61
		<hr/>
		\$10,000.00
		<hr/>

Grading for Concrete.

Appropriation	\$3,500.00	
Transferred from unappropriated money	1,389.37	
		<hr/>
		\$4,889.37
		<hr/>

EXPENDITURES.

LABOR.

Division No. 2:		
April	\$19.53	
May	34.08	
June	268.05	
July	252.66	
August	107.08	
September	174.27	
October	132.07	
November	174.10	
		<hr/>
		\$1,161.84
Division No. 7:		
April	\$13.50	
May	25.25	
December	2.50	
		<hr/>
		\$41.25
Division No. 10:		
April	\$74.88	
May	81.00	
June	53.38	

REPORT OF THE CITY AUDITOR.

July	\$128.24	
August	14.37	
September	44.00	
October	19.25	
November	76.13	
	<hr/>	\$491.25
Soule, Dillingham & Co.		\$316.82

STONE, CONCRETE, ETC.

C. A. Bailey, stone	\$1,200.00	
J. W. Fiske Iron Works, 1 fountain	136.33	
H. W. Harvey, stone	786.65	
Warren Harvey, stone	78.30	
T. A. Lane Co., iron fence, Goff's Falls	55.00	
Robie Consolidated Concrete Co., concrete	621.93	
	<hr/>	\$2,878.21
Total expenditures		<hr/> <hr/> \$4,889.37

Scavenger Service.

Appropriation	\$18,000.00
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EXPENDITURES.

LABOR.

Division No. 2:

January	\$974.86	
February	785.71	
March	840.30	
April	1,040.46	
May	721.20	
June	691.94	
July	832.81	
August	631.64	
September	744.20	
October	609.62	
November	634.98	
December	982.30	
	<hr/>	\$9,390.02

SCAVENGER SERVICE.

61

Division No. 7:

January	\$104.25
February	87.00
March	87.00
April	86.50
May	51.77
June	62.00
July	79.05
August	74.75
September	83.25
October	61.75
November	67.25
December	114.00

\$958.57

Division No. 10:

January	\$384.13
February	294.25
March	193.50
April	394.50
May	183.25
June	287.75
July	342.54
August	359.85
September	270.75
October	202.25
November	269.25
December	423.87

\$3,605.89

CONTRACT.

City farm	\$2,499.96
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SUNDRIES.

A. S. Brown, oats and corn	\$602.25
John T. Beach, carriage work	21.00
Head and Dowst Co., lumber and labor . . .	14.74
John B. Varick Co., hardware and tools . . .	129.39
N. J. Whalen, harness repairs, etc	9.20

\$776.58

Total expenditures	\$17,231.02
Transferred to unappropriated money	768.98

\$18,000.00

Street Sweeping.

Appropriation	\$2,500.00	
Transferred from unappropriated money . . .	732.21	
		<u>\$3,232.21</u>

EXPENDITURES.

LABOR.

Division No. 2:

January	\$74.93	
February	23.38	
March	184.99	
April	313.56	
May	178.60	
June	285.55	
July	324.87	
August	207.48	
September	491.72	
October	278.02	
November	227.25	
December	69.05	
		<u>\$2,659.40</u>

Division No. 7:

September	\$26.50
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Division No. 10:

March	\$36.00	
April	45.00	
July	37.00	
August	42.00	
September	77.12	
October	59.88	
November	117.00	
December . . . . .	.75	
		<u>\$414.75</u>

SUNDRIES.

C. A. Chamberlain, repairing sweeper	\$2.68	
H. Thompson, brooms and refilling brooms .	116.25	
John B. Varick Co., tools	12.63	
		<u>\$131.56</u>
Total expenditures		<u>\$3,232.21</u>

Bridges.

Appropriation	\$6,000.00	
Transferred from unappropriated money . . .	258.38	
	<hr/>	\$6,258.38

EXPENDITURES.**LABOR.****Division No. 2:**

January	\$17.50	
February	6.75	
April	13.87	
May	2.00	
June	48.12	
July	209.54	
August	511.67	
September	585.47	
October	56.49	
November	59.25	
December	4.50	
	<hr/>	\$1,515.16

Division No. 7:

May	\$40.12	
June	34.24	
July	14.50	
September	100.00	
	<hr/>	\$188.86

Division No. 10:

March	\$1.50	
April	66.75	
May	16.00	
June	19.75	
	<hr/>	\$104.00

CONTRACT.

The United Construction Co	\$1,375.00
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STONE, LUMBER, HARDWARE, ETC.

Warren Harvey, stone work	\$254.80
Head & Dowst Co., lumber	832.86
Manchester Hardware Co., nails	41.90

John B. Varick Co., hardware	\$98.75	
West Side Lumber Co., lumber	1,847.05	
		<hr/>
		\$3,075.36
Total expenditures		<hr/>
		\$6,258 38
		<hr/>

City Teams.

Appropriation	\$7,000 00
	<hr/>

EXPENDITURES.

LABOR.

Commons:

January	\$41.99	
February	7.25	
July	242.37	
August	111.75	
September	52.75	
October	30.75	
November	6.75	
		<hr/>
		\$493.61

Division No. 2:

January	\$270.75	
February	234.85	
March	253.92	
April	195.32	
May	145.25	
June	149.51	
July	173.43	
August	144.53	
September	161.11	
October	140.75	
November	183.88	
December	221.25	
		<hr/>
		\$2,274.55

Division No. 7:

May	\$25.00	
June	12.50	
July	12.50	
September	12.50	
October	12.50	
November	12.50	
December	12.50	
		<hr/>
		\$100.00

CITY TEAMS.

65

Division No. 10:

January	\$26.12
February	30.62
March	21.00
April	21.00
May	24.00
June	19.25
July	79.75
August	56.84
September	21.00
October	21.88
November	23.63
December	21.00

 \$366.09

GRAIN, HAY, STRAW.

Adams Brothers	\$29.60
Ame & Co	46.50
Arthur S. Brown	1,151.02
W. H. Boynton	149.92
C. H. Darrah	95.35
Gage & McDougall	97.43
B. F. Greer	42.96
W. H. Hammond	33.20
D. Hammond & Son	27.56
Mark E. Harvey	59.85
J. B. Huse	135.55
Mrs. J. E. Kimball	5.49
C. R. Merrill	30.00
Walter McQuestion	205.28
Joseph Quirin	21.20
E. P. Tilton	8.06
M. A. Wason	13.68
B. F. Welch	83.16

 \$2,235.81

HARNESSES AND REPAIRS.

J. A. Ballou	\$53.35
Mugridge & Bennett	136.85
H. C. Ranno & Son	62.98
N. J. Whalen	18.05

 \$270.33

CARRIAGE REPAIRS.

John T. Beach, lumber and labor	\$101.40
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HARDWARE AND TOOLS.

Manchester Hardware Co.	\$1.06	
John B. Varick Co.	373.56	
	<hr/>	\$374.62

VETERINARY EXPENSES.

A. L. Dodge, V. S., attendance and medicine	\$47.35	
H. B. Dunton, V. S., attendance and medicine	12.00	
J. L. Golden, V. S., liniment	12.00	
F. K. Hubbard, medicine	6.00	
W. B. Mitchell, medicine	3.65	
G. W. O. Tebbetts, medicine . . . . .	.40	
	<hr/>	\$81.40

WATER, GAS, TELEPHONE, FUEL.

Moore & Preston, coal	\$18.90	
New England Telephone & Telegraph Co., use of telephones	43.99	
People's Gas Light Co., gas	149.93	
Raiche & Laforce, coal	15.00	
Water Commissioners, use of water	101.57	
J. F. Wyman, coal	7.25	
	<hr/>	\$336.64

LUMBER, REPAIRS, ETC.

T. J. Briggs, stove pipe, repairing boiler . . .	\$0.90	
Concord Foundry Co., branding irons	6.00	
Head & Dowst Co., lumber and labor	220.74	
A. K. Hobbs, belt leather	2.25	
T. A. Lane Co., plumbing repairs, etc.	3.15	
Pike & Heald Co., pipe and labor	7.19	
G. W. Rief, labor	4.70	
L. & W. T. Seiberlich, paint and labor	3.79	
West Side Lumber Co., lumber . . . . .	.91	
	<hr/>	\$249.63

REPAIRS OF SEWERS.

67

SUNDRIES.

Daniels-Cornell Co., salt, soap	\$4.25	
E. D. Rogers, paste	5.50	
C. H. Simpson, use of teams	62.00	
Wiggin-Young Co., salt, matches, brooms, nails	34.93	
		<u>\$106.68</u>
Total expenditures		\$6,990.76
Transferred to unappropriated money		9.24
		<u><u>\$7,000.00</u></u>

Repairs of Sewers.

Appropriation	\$5,000.00	
Transferred from unappropriated money . . .	744.44	
		<u>\$5,744.44</u>

EXPENDITURES.

LABOR.

Division No. 2:

January	\$18.37	
February	223.17	
March	207.68	
April	514.10	
May	151.19	
June	294.28	
July	295.58	
August	284.81	
September	175.44	
October	429.22	
November	485.55	
		<u>\$3,079.39</u>

Division No. 10:

January	\$36.74
February	89.50
March	123.12
April	167.75
May	171.24
June	98.50
July	129.24

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August	\$27.50	
September	148.12	
October	180.62	
November	339.85	
	<hr/>	\$1,512.18

HARDWARE AND FREIGHT.

Boston & Maine R. R., freight	\$46.18	
Manchester Hardware Co., hardware	5.60	
John B. Varick Co., hardware	24.13	
	<hr/>	\$75.91

MATERIAL, LABOR, ETC.

American Locomotive Co., grates.	\$2.50	
Amory Manufacturing Co., sacking.	4.98	
Bucklin & Chamberlain, repairs	10.50	
Concord Foundry Co., traps, grates, etc.	153.62	
G. W. Dodge Shoe Co., rubber boots	15.00	
H. W. Harvey, stone	109.50	
W. F. Head & Son, brick	218.75	
Head & Dowst Co., cement, brick, etc.	312.25	
A. K. Hobbs, oil suits, hose, repairs	55.34	
T. A. Lane Co., material and labor	5.29	
Moore & Preston, coal	12.00	
Pike & Heald Co., dippers, pipe, repairing fountains.	116.56	
Wiggin-Young Co., oil, nails	16.82	
West Side Lumber Co., lumber	31.85	
C. B. Wingate, rubber boots	12.00	
	<hr/>	\$1,076.96
Total expenditures		<u><u>\$5,744.44</u></u>

New Sewers.

Appropriation	\$20,000.00	
Received for sewer pipe sold	2,503.47	
Transferred from unappropriated money	1,940.22	
	<hr/>	<u><u>\$24,443.69</u></u>

NEW SEWERS.

69

EXPENDITURES.

LABOR.

Division No. 2:

January	\$77.99	
February	180.85	
April	49.24	
May	1,754.65	
June	1,574.85	
July	732.11	
August	669.43	
September	1,539.96	
October	1,433.70	
November	25.30	
December	9.00	
	<hr/>	\$8,047.08

Division No. 7:

May	\$217.12	
September	21.87	
October	37.75	
December	7.25	
	<hr/>	\$283.99

Division No. 10:

January	\$854.96	
May	568.95	
June	678.48	
July	707.95	
August	1,039.35	
September	1,096.91	
October	430.54	
	<hr/>	\$5,377.14

PIPE AND HARDWARE.

Concord Foundry Co., grates, traps, castings	\$965.55	
J. A. Colby, pipe	15.60	
T. A. Lane Co., pipe	480.66	
Pike & Heald Co., pipe	3,371.01	
Portland Stone Ware Co., pipe	498.00	
John B. Varick Co., hardware and tools . . .	920.61	
	<hr/>	\$6,251.43

MATERIAL, FREIGHT, ETC.

Boston & Maine R. R., freight	\$588.41	
Carson Trench Machine Co., grates	19.00	
Harry G. Clough, blasting poles	10.00	

REPORT OF THE CITY AUDITOR.

W. H. Coburn, oak butts	\$14.00	
C. A. Chamberlain, making bolts, fitting plates	14.21	
Drew Machinery Agency, material and labor	11.40	
Ingersoll-Sergeant Drill Co., hose	65.00	
Supplies	171.68	
Pike & Heald Co., stove pipe . . . . .	.55	
Vacuum Oil Co., oil	25.38	
	<hr/>	\$919.63

CEMENT, STONE, BRICK, LUMBER.

Brooks & Brock, stone	\$1.50	
Head & Dowst Co., cement	1,373.78	
W. F. Head & Son, brick	1,046.50	
West Side Lumber Co., lumber	753.94	
	<hr/>	\$3,175.72

SUNDRIES.

L. B. Bodwell & Co., coal	\$144.99	
Silas H. Burbank, 1 light glass . . . . .	.75	
Peter Duval, filing saws	8.00	
Moore & Preston, coal	148.83	
Palmer & Garmon, use of truck	10.00	
People's Gas Light Co., coke	13.50	
S. B. Stearns, premium on insurance	50.00	
Wiggin-Young Co., salt, oil, glass	12.63	
	<hr/>	\$388.70

Total expenditures	<hr/> <hr/>	\$24,443.69
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Commons.

Appropriation	\$4,500.00
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EXPENDITURES.

LABOR.

January	\$298.50
February	205.12
March	139.00
April	260.12

COMMONS.

71

May	\$184.01
June	186.25
July	295.87
August	202.24
September	218.75
October	175.75
November	319.37
December	293.87

 \$2,778.85

PLANTS, ETC.

F. J. Bixby, plants	\$60.00
James Fullerton, pine boughs	8.00
A. G. Hood, plants	75.00
Kirby Floral Co., plants	80.00
Frank A. Koerner, plants	26.00
Ray Brook Garden Co., plants	86.80
John B. Varick Co., phosphate and grass seed	76.05

 \$411.85

WATER, ELECTRIC LIGHTS, GAS.

Manchester Traction, Light & Power Co., electric lights	\$36.00
People's Gas Light Co., gas	7.42
Water Commissioners, use of water	736.00

 \$779.42

REPAIRS AND GENERAL EXPENSES.

J. J. Abbott, paint	\$2.66
Adams Brothers, lime and salt . . . . .	.45
E. M. Bryant & Co., lamp and labor . . . . .	.60
D. F. Cressey, making irons, etc. . . . .	.95
F. C. Darrah, roofing material and labor	9.45
W. P. Farmer, rubber boots	3.00
Globe & Amesbury File Works, files	1.71
Head & Dowst Co., plank	4.26
J. Hodge, lumber	21.54
T. A. Lane Co., dippers, material and labor	21.35
Manchester Hardware Co., paint and hardware	25.90
Parnell Brothers, barrels	4.00
Harry Piper, filing saws, lumber and labor	54.12
Pike & Heald Co., repairing closet . . . . .	.40

REPORT OF THE CITY AUDITOR.

John B. Varick Co., tools and hardware . . .	\$98.07	
F. J. Walker, filing saws . . . . .	.40	
Wiggin-Young Co., oil	22.65	
C. B. Wingate, rubber boots	16.50	
	<hr/>	\$288.01
Total expenditures		\$4,258.13
Transferred to unappropriated money		241.87
		<hr/>
		\$4,500.00
		<hr/> <hr/>

Stark Park.

Appropriation	\$1,000.00	
Transferred from unappropriated money . . .	20.91	
	<hr/>	\$1,020.91
		<hr/> <hr/>

EXPENDITURES.

LABOR.

March	\$55.50	
April	146.50	
May	102.00	
June	65.25	
July	74.63	
August	116.50	
September	279.00	
October	169.61	
	<hr/>	\$1,008.99

SUNDRIES.

John B. Varick Co., seed, powder and fuse	\$11.92	
Total expenditures		\$1,020.91
		<hr/> <hr/>

Derryfield Park.

Appropriation	\$500.00	
Transferred from unappropriated money . . .	89.65	
	<hr/>	\$589.65
		<hr/> <hr/>

SOUTH MANCHESTER PLAYGROUND.

73

EXPENDITURES.

LABOR.

January	\$4.25	
February	5.75	
March	31.25	
April	152.25	
May	174.50	
June	184.74	
November	16.75	
	<hr/>	\$569.49

SUNDRIES.

W. G. Berry, insurance premium	\$6.25	
D. E. Guiney estate, repairing pump	2.50	
T. A. Lane Co., labor on pump and fountain	9.41	
H. A. Piper, repairing swing	2.00	
	<hr/>	\$20.16
Total expenditures		<hr/> <hr/> \$589.65

South Manchester Playground.

Appropriation	<hr/> <hr/> \$50.00
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EXPENDITURES.

SUNDRIES.

Adams Brothers, lime	\$0.60	
Pay-roll, commons:		
July	32.75	
October	4.75	
John B. Varick Co., line marker	2.00	
	<hr/>	\$40.10
Total expenditures		<hr/> \$40.10
Transferred to unappropriated money		9.90
		<hr/> <hr/> \$50.00

REPORT OF THE CITY AUDITOR.

Lighting Streets.

Appropriation	\$61,000.00
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EXPENDITURES.

	Charges.	Discounts.
Manchester Electric Co.:		
January	\$4,676.67	\$42.53
February	4,676.67	37.80
March	4,676.67	31.18
April	4,676.67	20.22
May	4,680.44	18.04
June	4,695.83	11.79
July	4,695.83	18.97
August	4,695.83	18.55
September	4,695.83	11.29
October	4,695.83	30.02
November	4,695.83	11.71
December	4,727.95	31.71
	\$56,290.05	\$283.81
Less discount	283.81	
		\$56,006.24

GAS.

Welsbach Street Lighting Co.	\$4,612.35
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SUNDRIES.

Mrs. F. W. Elliott, filling and lighting lamp to	
May 7, 1902	\$13.10
C. S. Fifield, use of team	5.00
W. J. Freeman, use of team	5.00
Mrs. Mary E. Reed:	
Lighting lamp to December 1, 1902	9.00
Oil for lamp to December 1, 1902	6.00
	\$38.10
Total expenditures	\$60,656.69
Transferred to unappropriated money	343.31
	\$61,000.00

Engineer's Department.

Appropriation	\$6,874.73	
Transferred from unappropriated money . . .	73.30	
	<hr/>	\$6,948.03

EXPENDITURES.

LABOR.

Samuel J. Lord, engineer:		
Services and team hire	\$1,550.00	
Harry J. Briggs	830.61	
Alfred T. Dodge	683.70	
Hallet R. Robbins	152.59	
G. W. Wales	992.45	
Henry Worthen	603.71	
Harrie M. Young	936.60	
Ella B. Davis, stenographer	499.41	
	<hr/>	\$6,249.07

SUPPLIES, OFFICE EXPENSES.

Amoskeag Manufacturing Co., 1 brass mould .	\$4.95
J. J. Abbott, shellac . . . . .	.75
Frank S. Bodwell, stone bounds	140.00
C. L. Berger & Sons, supplies and repairs . .	67.65
John B. Clarke Co.:	
Printing 300 reports	33.80
Binding 8 books	4.00
Eugene Dietzgen Co., blue print paper . . .	4.81
David Flanders, figures and nickeling . . .	42.63
A. L. Franks & Co., 1 electric fan	5.00
W. P. Goodman, stationery	6.45
W. & L. E. Gurley, tripod points and express .	3.25
R. K. Horne, cuspidores	2.00
A. K. Hobbs, rubber	2.25
Head & Dowst Co., lumber and grade sticks .	53.06
C. A. Hoitt & Co., blacking cabinet and brushes	2.95
J. G. Jones, cartage . . . . .	.35
Keystone Blue Paper Co., supplies	4.35
Keuffel & Esser Co., 1 scale	2.12
Manchester Hardware Co., hardware	1.83

New England Telephone & Telegraph Co., use telephone	\$25.15	
Pneumatic Hand Stamp Co., stamps	3.40	
Pike & Heald Co., Hydrant plugs and labor	14.01	
E. A. Stratton:		
Stationery	5.55	
Bookcases	16.00	
Star Stamp Co., stamp and ink	1.00	
D. F. Shea, rubber boots	3.50	
E. G. Soltmann, paper, pencils, ink	9.11	
Carl Strauss, 1 pencil pointer	7.50	
Temple & Farrington Co., binding book	7.00	
Union Manufacturing Co., figures	1.50	
John B. Varick Co., hardware and tools	24.48	
G. W. Wales, carfare, express, lime, etc.	4.99	
H. A. Worthen, telephone and string . . . . .	.40	
C. H. Wood:		
Painting signs	14.40	
Varnishing box and rods	2.00	
J. A. Williams, printing cards, blanks, etc.	19.50	
Wyckoff, Seamans & Benedict:		
Typewriter tabulator	23.50	
Supplies	6.96	
Yawman & Erbe Manufacturing Co., filing cases, cards, etc.	77.53	
Harrie M. Young, carfare, express, paper, glue, etc.	7.85	
		<hr/>
		\$657.53

SUNDRIES.

Harry L. Gould, weekly bench mark report	\$18.00	
H. C. Ranno & Son, repairing harness	2.43	
C. H. Simpson, use of horse 21 days	21.00	
		<hr/>
		\$41.43
Total expenditures		<hr/>
		\$6,948.03

Health Department.

Appropriation	\$6,800.00	
Transferred from unappropriated money	690.25	
		<hr/>
		\$7,490.25

HEALTH DEPARTMENT.

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EXPENDITURES.

SERVICES.

John C. Bickford, salary as member of board	\$200.00	
W. M. Parsons, M. D., salary as member of board	200.00	
W. K. Robbins, salary as member of board	200.00	
W. B. Blake, sanitary inspector	741.39	
John F. Looney, sanitary inspector	813.38	
Carl O. Seaman, plumbing inspector	933.00	
M. Alma Fracker, clerk	477.00	
	<hr/>	\$3,564.77

PRINTING AND STATIONERY.

John B. Clarke Co.:		
Printing bulletins, cards, etc.	\$163.35	
300 reports	14.70	
Nate Kellogg Co., printing tags	1.50	
E. A. Stratton, stationery	15.71	
J. Arthur Williams, printing licenses	2.25	
	<hr/>	\$197.51

TEAMS, ETC.

G. W. Bailey	\$7.50	
J. P. Brown	10.00	
J. P. Brown & Co	24.00	
W. B. Blake, carfares, etc	37.00	
H. R. Dow & Co	2.00	
D. N. Gove	4.00	
John F. Looney, carfares	25.70	
Carl O. Seaman, carfares . . . . .	.55	
	<hr/>	\$110.75

OFFICE EXPENSES AND SUPPLIES.

Amoskeag Manufacturing Co., oil vitriol	\$3.10	
W. B. Blake, express, telephone, key, etc	1.45	
Bausch & Lomb Optical Co., supplies for milk laboratory	7.28	
Z. F. Campbell, antitoxine	13.25	
The Chemical Publishing Co., 1 "Chemistry of Dairying"	1.50	
Carter, Rice & Co., gummed paper	12.60	

J. Doucet & Co., antitoxine	\$4.00
James P. Finn, repairing screens	3.67
T. F. Fifield, soap, lime, soda . . . . .	.93
General Electric Co., scaling tools and wire . .	6.51
M. A. Fracker, laundry, express, telegrams, postage	20.90
James W. Hill Co., cotton	3.30
Henry Heil Chemical Co., apparatus and sup- plies for milk inspection	78.38
John B. Hall Co., antitoxine, vaccine	27.10
R. K. Horne, pan and pail	1.67
C. A. Hoitt & Co., 1 rug	1.50
Library Bureau, index cards	3.00
H. K. Mulford Co., antitoxine	33.75
New England Telephone and Telegraph Co., use of telephone	22.38
Parke, Davis & Co., culture tubes	5.04
Potvin & Co., antitoxine	166.02
People's Gas Light Co., gas	17.41
A. D. Smith, formaldehyde	51.15
F. H. Thurston, antitoxine, vaccine	8.53
G. W. O. Tebbetts, atomizers, plaster	2.95
John B. Varick Co., paper, baskets, cloth, twine,	26.94
	<hr/>
	\$524.31

PESTHOUSE.

W. B. Blake, 1 shirt	\$0.50
Hardy & Folsom, 3 comforters	3.75
John B. Hall Co., antitoxine, vaccine, etc . . .	29.87
R. K. Horne, glasses, foot bath	1.95
New England Telephone and Telegraph Co., use of telephone	20.62
W. M. Parsons, M.D., services	975.00
Judith Sherer, services	360.00
board of sundry persons	132.40
A. D. Sherer, services	181.00
use of team	7 00
Mrs. A. D. Sherer, services	89.00
D. A. Watson, wood	22.50
Water Commissioners, labor and pipe	54.60
Use of water	9.38
W. E. Woodward, wood	5.25
	<hr/>
	\$1,892.82

ISOLATION HOSPITAL.

John C. Bickford, expenses to Newton hospital	\$3.50
expenses to Boston, purchasing furniture . .	5.80
W. B. Blake, medicine, salt . . . . .	.80
L. B. Bodwell & Co., coal	53.75
Robert R. Chase, insurance premium	37.50
C. G. Dunnington, medicine . . . . .	.95
W. F. Elliott, expenses to Newton to inspect isolation hospital	4.00
Henry M. Farrell, plumbing	35.60
Girardin & Tardivel, insurance premium . . .	37.50
Hardy & Folsom, sheets	2.70
John B. Hall Co., medicine and supplies . . .	67.10
C. A. Hoitt & Co., commode and shade	4.15
A. K. Hobbs, rubber sheeting	3.00
T. A. Lane Co., labor on boiler and leaks . . .	7.08
Manchester Traction, Light and Power Co.: lights	3.90
Maggie McDonald, services as nurse	39.00
John P. Mullen, expenses to Newton to inspect isolation hospital	4.00
Mrs. Eva M. Nute, services as matron	64.00
board, sundry persons	54.57
1 stove	25.00
New England Telephone & Telegraph Co., use of telephone	4.35
M. Parkins, services as nurse	6.00
Pike & Heald Co., charcoal, filter . . . . .	.62
Water Commissioners, use of water	4.75
John B. Varick Co., 1 letter box	2.00
D. A. Watson, wood	54.75

 \$526.37

SUPPLIES FOR ISOLATED FAMILIES.

Joseph Archambeault, quarantine officer . . .	\$1.00
Leon J. Adler, quarantine officer	1.00
W. B. Blake, medicine	1.35
P. Bellefeuille, groceries	3.51
Charles Boisclair & Co., wood	3.71
A. A. E. Brien, M. D., medicine	2.20
George Boisvert, groceries	7.21
James Cavanaugh, quarantine officer	7.00
Côté Brothers, bread	1.38
J. B. Daigle, groceries	5.96
J. H. DeCourcy Co., coal	3.13

H. Fradd & Co., groceries	\$5.95
Thomas M. Freeman, quarantine officer	3.00
J. J. Grenier, groceries	46.83
Gilbert Gonyeau, wood	3.00
J. A. Guay, groceries	3.10
Mary Hayes, groceries	11.60
John B. Hall Co., medicine, etc.	56.55
J. J. Kelly, quarantine officer	26.00
Lamoureux Brothers, groceries	11.12
John F. Looney, wood, milk	1.38
P. D. Lynch, groceries	30.01
Manchester Coal & Ice Co., wood	1.00
Maynard & Dupont, groceries	8.50
Samuel McCarthy, quarantine officer	4.00
O. H. Nourry, groceries	9.48
Frank I. Paige, groceries	2.65
H. Pariseau, groceries	6.99
F. X. Parent, groceries	70.77
Eugene Quirin, groceries	6.70
Raiche & Laforce, wood	1.75
Alphonse Regnier, quarantine officer	4.00
Schricker Brothers, groceries	19.56
Summer Street Market, groceries	9.13
J. J. Splane, groceries	14.29
Joseph Trahan, groceries	7.75
F. H. Thurston, antitoxine	5.75
S. M. Wheeler, wood	1.00

 \$409.31

SUNDRIES.

W. B. Blake, expenses to State board of health meeting, milk samples, burying dead animals, etc.	\$8.42
L. B. Bodwell & Co., ice	9.11
A. L. Gadbois & Co., burial outfits	26.00
John B. Hall Co., medicine	3.20
John F. Looney, milk samples, burying dead animals, etc.	32.96
J. G. Lussier, M. D., services	3.00
Carl O. Seaman, testing milk, supplies, etc.	34.91
A. D. Smith, formaldehyde	34.31
Gillis Stark, M. D., services	13.00
A. G. Straw, M. D., diphtheria examinations.	99.50

 \$264.41

 Total expenditures \$7,490.25

Isolation Hospital.

Balance from last year unexpended	\$2,901.99	
Appropriation	3,000.00	
Transferred from unappropriated money . . .	265.39	
		<u>\$6,167.38</u>

EXPENDITURES.

L. M. Aldrich, expenses to Newton, blue print- ing plans	\$9.50
F. S. Bodwell, steps	45.00
L. B. Bodwell & Co., coal	19.88
E. M. Bryant & Co., electrical supplies and labor	63.02
Codman & Shurtleff, 4 bleached gowns	10.00
Joel Daniels, setting glass	2.35
Henry M. Farrell, brass pipe, cement, labor . .	7.32
A. L. Franks & Co., wiring hospital	65.00
Fire sets	11.00
Gazaille & Co., blankets, sheets, etc.	11.94
Head & Dowst Co., lumber	16.73
James W. Hill Co., sheets, towels, spreads, blankets	48.76
C. A. Hoitt & Co., shades, matting, pillows . .	47.94
R. K. Horne, crockery, glass, tinware	35.57
Frank Kennedy, paint and labor	47.00
E. G. Libbey, use of teams	19.50
C. H. Leach, freight and cartage	5.71
T. A. Lane Co., steam heating	668.00
Starting boiler, repairing leaks	31.57
Manchester Dry Goods Co., blankets, towels, spreads	22.05
Donald McDonald, blacksmithing	9.04
Pay roll: May	46.13
June	92.83
July	154.12
August	79.35
October	41.62
November	30.75
Harry A. Piper, labor and material	1,466.90
Screens	44.00
70 loads dirt	28.00
The Putnam Co., furniture	152.48
B. W. Robinson, cementing cellars, etc. . . .	90.90
James A. Scully, chairs, desk, crib, etc. . . .	43.29

Street & Park Commissioners, blasting rock . .	\$17.00	
John B. Varick Co., hardware, clothes reel, etc.	34.77	
Water Commissioners, blasting stone	24.75	
F. J. Walker, labor and material	2,200.00	
W. C. Wilson, building addition, horse shed, etc.	415.46	
Cyrus Whittemore, masonwork	8.24	
	<hr/>	\$6,167.38
Total expenditures		<hr/> <hr/> \$6,167.38

City Library.

Balance from last year unexpended	\$2,419.79	
Appropriation	6,200.00	
	<hr/>	\$8,619.79
		<hr/> <hr/>

EXPENDITURES.

LIBRARIAN AND ASSISTANTS.

F. Mabel Winchell, librarian	\$900.00	
Thomas Ayer	11.60	
Charles S. Morgan	400.50	
Thomas F. Nolan	41.25	
R. M. Page	62.50	
A. P. Reed	160.55	
H. C. Rogers	172.50	
George A. Teeling	149.25	
	<hr/>	\$1,898.15

CATALOGUE AND CATALOGUE SUPPLIES.

A. L. A. Publishing Board, cards	\$0.40	
Library Bureau, book, index cards	22.00	
Louise E. Newell, copyist	428.80	
Edith O. Simmons, copyist	498.60	
Temple & Farrington Co., cards, pockets, stationery	175.54	
F. M. Winchell, paid for catalogue cards . .	10.00	
	<hr/>	\$1,135.34

BINDING, REBINDING, RESEWING.

F. J. Barnard & Co.	\$434.05	
Temple & Farrington Co.	121.50	
	<hr/>	\$555.55

WATER, LIGHTS, FUEL, INSURANCE.

C. H. Bodwell, wood	\$93.50	
Clarence M. Edgerly, insurance premium . . .	125.00	
Manchester Coal and Ice Co., coal	47.93	
Manchester Traction, Light & Power Co., lights	471.30	
Moore & Preston, coal	257.94	
People's Gas Light Co., gas	67.28	
Water Commissioners, use of water	16.00	
	<hr/>	\$1,078.95

NEW BOOKS.

Trustees of library	\$1,000.00
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SUNDAY OPENING.

Peter Callaghan, police service	\$23.75	
Charles S. Morgan, labor	62.50	
R. M. Page, labor	12.00	
A. P. Reed, labor	38.70	
Edith O. Simmons, labor	143.00	
	<hr/>	\$279.95

SUNDRIES.

E. M. Bryant & Co., electric labor	\$1.40	
L. B. Bodwell & Co., ice	5.00	
John B. Clarke Co., printing 300 reports . . .	13.00	
"Daily Mirror" one year	6.00	
Mrs. Mary Higgins, cleaning	39.68	
Charles F. Livingston, printing covers	161.65	
Manchester Hardware Co., water cooler . . .	2.00	
John B. Varick Co., waste baskets	2.72	
F. M. Winchell, paid for cleaning	67.16	
	<hr/>	\$298.61
		<hr/>
Total expenditures		\$6,246.55
Transferred to new account		2,373.24
		<hr/>
		\$8,619.79
		<hr/> <hr/>

Fire Department.

Appropriation	\$70,350.00	
Transferred from unappropriated money . . .	7.96	
	<hr/>	\$70,357.96
		<hr/>

EXPENDITURES.

SERVICES.

Thomas W. Lane, chief engineer	\$1,500.00	
Fréd S. Bean, assistant	231.25	
Clarence R. Merrill, assistant and clerk . . .	256.25	
John Montplaisir, assistant	231.25	
John F. Seaward, assistant	231.25	
	<hr/>	\$2,450.00

TEAMSTERS' AND ENGINEERS' PAY-ROLL.

January	\$2,372.68	
February	2,349.93	
March	2,337.89	
April	2,339.43	
May	2,331.93	
June	2,327.39	
July	2,400.60	
August	2,406.68	
September	2,395.14	
October	2,320.69	
November	2,324.18	
December	2,351.64	
	<hr/>	\$28,258.18

CALL MEMBERS.

Engine Company No. 1	\$1,698.00	
Engine Company No. 2	1,688.00	
Engine and Ladder Company No. 3	2,293.00	
Engine Company No. 4	1,698.00	
Engine and Ladder Company No. 5	2,458.00	
Engine and Ladder Company No. 6	2,458.00	
Chemical Engine Company	437.75	
Hook & Ladder Company No. 1	1,828.00	
Hose Company No. 1	1,693.00	
Hose Company No. 2	1,677.16	
Hose Company No. 3	928.00	
	<hr/>	\$18,856.91

OTHER LABOR.

F. O. Bartlett	\$21.75
Oscar Bineau	138.50
Fletcher Brown	38.50
John Buswell	5.94
H. E. Dunbar	180.00
Julian B. Huntley	21.00
C. F. Kemp	174.75
John H. McCabe	42.00
Frank H. Paige	1.50
E. A. Sears	41.25
	<hr/>

\$665.19

LAUNDRY.

J. E. Cheney	\$22.35
S. P. Dickey	15.87
Domestic Laundry Co.	3.30
Eagle Hand Laundry	3.60
H. E. Harris	12.40
M. H. Hulme	47.50
L. A. Lamson	21.42
N. H. Towel Supply Co.	39.00
Margaret Powers	55.10
Susie E. Reed	7.00
A. W. Smith	14.10
	<hr/>

\$241.64

FURNITURE, ETC.

C. A. Hoitt & Co., comforters, springs, mattresses, wardrobe, etc	\$34.25
James W. Hill Co., cotton, pillow slips, crash, etc.	31.74
	<hr/>

\$65.99

PRINTING AND STATIONERY.

John B. Clarke Co.:	
Printing 400 reports	\$38.50
Envelopes	22.80
Nate Kellogg Co., printing	44.70
Temple & Farrington Co., stationery	12.74
Engine and hose companies, allowance for printing and stationery	110.00
	<hr/>

\$228.74

REPORT OF THE CITY AUDITOR.

WATER, LIGHTS, TELEPHONE.

New England Telephone & Telegraph Co., use of telephone	\$150.74	
Manchester Traction, Light & Power Co., lights	57.00	
People's Gas Light Co., gas	884.61	
Water Commissioners, use of water	451.01	
	<hr/>	\$1,543.36

FUEL.

C. H. Bodwell, wood	\$228.25	
L. B. Bodwell & Co.:		
Coal	411.64	
Wood	35.50	
S. L. Flanders, wood	6.00	
Moore & Preston:		
Coal	649.33	
Wood	3.90	
D. M. Poore, coal	406.94	
John P. Russell, coal	393.82	
	<hr/>	\$2,135.38

FREIGHT AND CARTAGE.

Boston & Maine Railroad	\$12.00	
E. H. Holmes	9.12	
H. Mattoon	3.42	
	<hr/>	\$24.54

SUPPLIES, ETC.

C. P. Anderson, 1 search light	\$1.50
L. B. Bodwell & Co., ice	5.60
Boston Woven Hose & Rubber Co., hose	737.70
Cavanaugh Brothers, 9 horses	2,067.50
Cornelius Callahan Co., sponge, chamois, pipes, washers, etc	184.42
Eldredge Electric Manufacturing Co., 1 battery voltmeter	4.00
Electric Gas Lighting Co., supplies	65.25
S. L. Flanders, oil, broom, chimneys	2.00
Henry A. Glazier:	
Patent collar and hames	50.00
Links	5.50

FIRE DEPARTMENT.

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Globe Manufacturing Co., 18 fire coats	\$67.50
Globe Suspender Manufacturing Co., horse brushes	18.00
Head & Dowst Co., lumber	17.35
A. K. Hobbs, polish, matting	4.88
J. Hodge, sheathing	4.64
A. C. Hovey, wringer	2.50
T. A. Lane Co., hose, mantles, flue cleaner, etc.	733.60
Manchester Hardware Co., hardware, tools . .	100.69
Mathieson Alkali Works, soda	16.36
New England Fire Supply Co., 1 pipe	10.00
R. S. Ormsby, oil	2.35
Paige & Myrick, 1 stencil . . . . .	.54
People's Gas Light Co., 1 stove	3.00
C. N. Perkins & Co.:	
1 combination wagon	1,700.00
Supplies	372.40
Red Cross Chemical Co., disinfectant	6.00
Star Stamp Co., ink and pad . . . . .	.80
C. D. Steele & Co., oil	1.20
D. A. Simons, chair seats	1.10
Smith Box & Lumber Co., sawdust	3.75
A. J. Smith, rubber rings	2.00
Swinston & Robinson, soap	22.15
S. E. Spender Co., 1 badge	2.00
Stark Mills, waste . . . . .	.66
Talbot Dyewood & Chemical Co., bicarbonate of soda	9.80
Vacuum Oil Co., oil	5.50
John B. Varick Co., hardware	252.86
	<hr/>
	\$6,485.10

PLUMBING, REPAIRS, ETC.

Boston Belting Co., repairing hose	\$5.30
Brodie Electric Co., repairs, gas and electric lights	26.12
E. M. Bryant & Co., supplies and labor . . .	48.30
Harry Bernard, bracing chairs	13.40
T. A. Lane Co., repairs, plumbing, etc. . . .	55.43
H. J. Lawson, solder, copper, labor	5.93
C. F. McDonald, plumbing	7.62
Pike & Heald Co., repairing lantern, etc. . .	2.95
Edward Sargent, repairing lock . . . . .	.40
A. J. Smith, rubber rings	1.00
C. A. Trefethen, repairing clocks	6.50
	<hr/>
	\$172.95

VETERINARY SERVICES AND MEDICINES.

A. W. Baker, V. S., dentistry	\$14.00	
C. M. Bailey, V. S., attendance and medicine .	15.00	
N. Chandler, hoof ointment	4.50	
Frank J. Clark, dentistry	3.00	
A. L. Dodge, V. S., attendance and medicine .	61.75	
H. B. Dunton, V. S., attendance and medicine	59.50	
L. G. Gilman, medicine	3.20	
John B. Hall Co., medicine . . . . .	.25	
W. B. Mitchell, medicine, etc.	1.58	
Snelling & Woods, medicine	13.25	
Witch Hazel Tonic Co., witch hazel tonic . .	1.75	
		<hr/>
		\$177.78

CARRIAGE REPAIRS.

American Locomotive Co.	\$247.22	
J. B. McCrillis & Son	237.71	
Sanborn Carriage Co.	8.90	
Edward Sargent	5.15	
Joseph Vogel & Son	29.20	
		<hr/>
		\$528.18

BLACKSMITHING.

Connor & Grossman	\$40.25	
H. J. Dexter	106.35	
Henry Gandreault . . . . .	.75	
T. Hickey & Co.	12.00	
Donald McDonald	173.49	
John McSweeney	257.60	
John Reagan	91.10	
J. O. & L. P. Tremblay	256.25	
G. F. Wenzel	33.30	
John F. Woodbury	235.25	
		<hr/>
		\$1,206.34

HAY, GRAIN, ETC.

Adams Brothers	\$222.61	
Arthur S. Brown	512.89	
C. M. Denyon	32.00	
Gage & McDougall	1,037.25	
C. R. Merrill	4,535.29	
Partridge Brothers	510.85	
		<hr/>
		\$6,850.89

FIRE ALARM TELEGRAPH.

89

HARNESS REPAIRS AND SUPPLIES.

W. H. Adams	\$72.10	
F. J. Dustin	6.00	
W. E. Greeley	4.50	
H. C. Ranno & Son	163.60	
Joseph Vogel & Son	15.15	
N. J. Whalen	2.50	
	<hr/>	\$263.85

SUNDRIES.

E. R. Barry, lunch furnished Nashua firemen, " Kennard fire "	\$3.25	
Cavanaugh Brothers, use of horse	15.00	
William Corey, boarding horses	21.00	
H. R. Dow & Co., use of team	5.00	
J. G. Ellinwood, pictures	5.00	
W. J. Freeman, use of hack	5.00	
J. H. Fitzgerald, lunch served Concord fire- men, " Kennard fire "	10.00	
Harriett Gannon, stenographer services, type- written transcription, " Kennard fire " hear- ing	21.75	
Harry F. Hull, use of hack	5.00	
W. H. Hurd, suppers, firemen, " Kennard fire "	19.00	
T. W. Lane:		
Expenses committee, sundry places	33.35	
Express, freight, postage	12.25	
Expenses attending International Associa- tion Fire Engineers, New York City	39.64	
F. H. Thurston, " Germol "	7.70	
	<hr/>	\$202.94
Total expenditures		<hr/> <hr/> \$70,357.96

Fire Alarm Telegraph.

Appropriation	\$1,700.00	
Transferred from unappropriated money . . .	137.08	
	<hr/>	\$1,837.08

REPORT OF THE CITY AUDITOR.

EXPENDITURES.

LABOR.

January	\$54.00	
February	48.00	
March	54.00	
April	52.00	
May	54.00	
June	50.00	
July	54.00	
August	56.00	
September	52.00	
October	54.00	
November	52.00	
December	54.00	
	<hr/>	\$634.00
E. A. Sears	\$4.00	
Oscar Bineau	17.00	
	<hr/>	\$21.00

SUPPLIES.

American Electrical Works, wire	\$81.74	
Brodie Electric Co., material and labor	35.58	
James R. Carr Co., paint and brush	11.95	
Couch & Seeley, clamps, cord . . . . .	.43	
W. E. Decrow, signal boxes, gong, etc.	610.02	
Electric Gas Lighting Co., supplies	188.22	
Head & Dowst Co., lumber and labor	1.37	
J. Hodge, lumber.	168.50	
T. A. Lane Co., switches, etc.	4.95	
H. F. W. Little, filing saw . . . . .	.15	
New England Bolt & Nut Co., arm braces	24.75	
Pike & Heald Co., gasoline . . . . .	.95	
John B. Varick Co., hardware	47.01	
	<hr/>	\$1,175.62

SUNDRIES.

E. H. Holmes, freight and cartage	\$6.46
Total expenditures	<hr/> \$1,837.08 <hr/>

HYDRANT SERVICE.

91

Hydrant Service.

Appropriation	\$18,800.00
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EXPENDITURES.

Water Commissioners, use of hydrants	\$18,800.00
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Police Department.—Station.

Appropriation	\$2,560.00
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EXPENDITURES.

JANITOR.

Frank P. Wiggin	\$730.00
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WATER, LIGHTS, FUEL.

C. H. Bodwell, wood	\$71.50	
W. E. Dunbar & Son, wood	9.50	
Manchester Coal & Ice Co., coal	38.07	
Manchester Traction, Light & Power Co., lights,	600.00	
Moore & Preston :		
Coal	392.94	
Wood	26.50	
People's Gas Light Co., gas	83.58	
Water Commissioners, use of water	157.72	
W. E. Woodward, wood	2.00	
		\$1,381.81

LAUNDRY, ETC.

H. Fradd & Co., pail, broom, brush, etc.	\$3.55	
J. S. Holt & Co., soap	6.00	
Joseph Sykes, cleaning	72.60	
Mrs. J. F. Wiggin, washing	48.05	
		\$130.20

REPORT OF THE CITY AUDITOR.

REPAIRS, ETC.

J. J. Abbott, glass and setting	\$1.95	
D. F. Cressey, repairing chains	1.50	
Peter Harris, repairing safe	1.00	
Head & Dowst, lumber and labor	7.50	
T. A. Lane Co., lamps, etc., labor on pipe . . .	53.41	
L. & W. T. Seiberlich, setting glass.	3.15	
John B. Varick Co., dusters, matches, etc. . .	13.55	
C. L. Wolf, cleaning stove and pipes	4.85	
		<hr/>
		\$86.91

SUNDRIES.

James W. Hill Co., crash	\$6.34	
J. J. Holland, medicines, etc.	55.40	
		<hr/>
		\$61.74
Total expenditures	\$2,390.66	
Transferred to unappropriated money.	109.34	
		<hr/>
		\$2,500.00
		<hr/>

Police Department.—Court.

Appropriation	<hr/>
	\$2,900.00
	<hr/>

EXPENDITURES.

SERVICES.

John C. Bickford, clerk	\$600.00	
Isaac L. Heath, police justice.	1,500.00	
George W. Prescott, associate justice	300.00	
		<hr/>
		\$2,400.00

SUNDRIES.

A. S. Campbell & Co., printing	\$152.50	
W. H. Campbell, boxes	17.50	
John B. Clarke Co., printing	22.25	
J. G. Jones, freight and cartage . . . . .	.50	

POLICE DEPARTMENT.—COURT.

93

M. J. Healy, witness fees, etc.	\$238.43	
Thomas D. Luce, certifying appeals	1.00	
New England Telephone & Telegraph Co., use of telephone	33.25	
Temple & Farrington Co., stationery	5.35	
	<hr/>	\$470.78
Total expenditures		\$2,870.78
Transferred to unappropriated money		29.22
		<hr/>
		<u>\$2,900.00</u>

Police Department.—Commission.

Appropriation	<u>\$43,600.00</u>
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EXPENDITURES.

SERVICES.

Michael J. Healy, chief of police	\$1,999.92	
John F. Cassidy, deputy chief	1,500.00	
E. B. Woodbury, chairman of commission, salary	150.00	
N. S. Clark, commissioner, salary	100.00	
Frank P. Cheney, commissioner, salary	100.00	
A. B. Brown, police matron	426.00	
Regular patrol	33,804.19	
	<hr/>	\$38,080.11

FEEDING PRISONERS.

W. D. Ladd & Co	\$26.35	
S. J. Laflamme	148.00	
	<hr/>	\$174.35

PRINTING AND STATIONERY.

John B. Clarke Co., printing	\$18.00	
W. P. Goodman, stationery	13.00	
E. A. Stratton, books and stationery	85.65	
	<hr/>	\$116.65

REPORT OF THE CITY AUDITOR.

PATROL SYSTEM EXPENSES.

W. H. Adams, harness repairs	\$13.75	
Ame & Co., food	6.50	
American Electrical Works, wire	57.32	
J. J. Abbott, turpentine and gasoline . . . . .	.77	
Automatic Time Stamp Co., ribbons	4.00	
E. M. Bryant & Co., electric supplies and repairs	12.06	
Boston & Maine Railroad, freight on wire, etc..	3.94	
Brodie Electric Co., supplies	17.40	
Oscar Bineau, labor, line work	27.00	
Boyd Brothers, clipping horse	2.00	
James Coakley, assistance of linemen running new wires for signal system, account of fire .	9.80	
D. F. Cressey, blacksmithing	3.50	
H. B. Dunton, V.S., visits and medicine.	16.00	
Electric Gas Lighting Co., vitriol, batteries, etc.	71.83	
A. Fillion, repairing wagon	20.35	
A. K. Hobbs, oil cloth . . . . .	.40	
J. M. Knowles, rent of stable	60.00	
T. A. Lane Co., electric supplies	12.22	
C. R. Merrill, grain	290.03	
John McNaughton, labor, line work	4.00	
Municipal Signal Co., supplies	11.50	
James Murphy, varnishing patrol wagon . . .	15.00	
W. F. Nye, oil	3.90	
Patrick O'Brien, cleaning stable cellar . . . .	.60	
Charles E. Perry & Co., paper	33.00	
Pettingell-Andrews Co., electric supplies. . . .	121.80	
Sauborn Carriage Co., repairs	20.90	
Timothy Shea, hay	139.00	
J. O. & L. P. Tremblay, horseshoeing	4.25	
J. F. Woodbury, horseshoeing	70.00	
W. W. Williamson, labor, line work	15.00	
Ziegler Apparatus Co., supplies	93.67	
		<hr/>
		\$1,161.49

ALLOWANCE FOR CLOTHING AND BICYCLE REPAIRS.

Robert J. Hayes	\$12.50	
William F. Morang	12.50	
Pay-Roll	2,000.00	
		<hr/>
		\$2,025.00

HARDWARE AND REPAIRS.

Head & Dowst Co. lumber	\$5.38	
J. Hodge, lumber	1.56	
Manchester Hardware Co., hardware	101.12	
B. F. Shephard, repairing locks, etc.	1.10	
John B. Varick Co., hardware	1.50	
	<hr/>	\$110.66

TELEPHONE AND TELEGRAPH.

New England Telephone & Telegraph Co., use of telephones	\$150.36	
rent of private line and instruments	114.00	
Western Union Telegraph Co., telegrams	4.20	
	<hr/>	\$268.56

SUNDRIES.

George H. Bingham, legal services	\$623.75	
Burnham, Brown & Warren, legal services	350.00	
L. B. Bodwell & Co., ice for 1901, 1902	17.98	
N. S. Clark, stationery and typewriting	2.37	
G. H. Emery, photographing criminals	34.00	
W. J. Freeman, 2 saddle horses for President's parade	4.00	
M. E. Kean, M.D., visits at station	21.00	
Gillis Stark, M. D., examination, Margaret Burke, and visits	18.00	
George D. Towne, M.D., examination, Margaret Burke	15.00	
F. H. Thurston, medicine	3.85	
Watts Brothers, 1 chair	1.25	
	<hr/>	\$1,091.20
		<hr/>
Total expenditures		\$43,028.02
Transferred to unappropriated money		571.98
		<hr/>
		\$43,600.00
		<hr/> <hr/>

Repairs of Buildings.

Appropriation	\$4,625.00	
Transferred from unappropriated money	161.97	
	<hr/>	\$4,786.97
		<hr/> <hr/>

EXPENDITURES.

CITY LIBRARY.

J. J. Abbott, glass, paint	\$3.25
Barton & Co., linoleum	2.48
E. M. Bryant & Co., switch and labor	1.40
Joel Daniels, making and lettering signs . . .	2.00
Fred C. Darrah, repairing roof	5.41
A. L. Franks:	
Lamps, etc.	75.04
Electrical supplies and labor	127.07
A. K. Hobbs, hose, rubber mats	20.25
George Holbrook, clearing snow off roof . . .	13.50
T. A. Lane Co., plumbing repairs, etc	53.46
Manchester Hardware Co., 1 axe	1.00
Manchester Traction, Light & Power Co., lamps	2.04
J. Y. McQueston Co., 1 desk	9.50
Harry A. Piper, material and labor	15.82
John B. Varick Co., hose, steps, brooms, etc. .	45.43

 \$377.65

POLICE STATION.

F. C. Darrah, roofing material and labor . . .	\$7.03
T. A. Lane Co., labor on sewer, waste pipe . .	2.85
H. A. Piper, material and labor	111.49
F. T. Provost, lumber and labor	1.15
John Wheeler, masonwork	3.85
C. L. Wolf, grate for boiler	37.51

 \$163.88

ENGINE HOUSES.

Barton & Co., shades and rollers	\$7.22
C. B. Brown, roofing material and labor . . .	7.21
Joel Daniels, setting glass, paint and labor .	69.19
Fred C. Darrah, roofing material and labor . .	14.16
W. E. Goodwin, plumbing	126.05
Gronvald Coal Saver Co., 1 attachment . . .	100.00
T. A. Lane Co.:	
New tubes in boiler	112.25
Steam heating per contract	182.48
Labor and material	4.90
H. J. Lawson, material and labor	50.92
C. F. McDonald, plumbing repairs	294.09

REPAIRS OF BUILDINGS.

97

N. W. Paige, floor boards and labor	\$9.28	
Harry A. Piper, repairs	1,028.94	
Pike & Heald Co., plumbing repairs	67.98	
F. T. Provost, lumber and labor	355.66	
Robie Consolidated Concrete Co., concrete . .	19.91	
John A. Sargent, paint and labor	106.56	
James A. Scully, matting, linoleum	23.29	
Z. B. Stewart, masonwork	30.65	
John K. Wilson, lumber and labor	6.94	
John Wheeler, masonwork	50.82	
C. L. Wolf, plumbing repairs	52.75	
	<hr/>	\$2,712.25

COURT HOUSE.

Joel Daniels & Co., paint and labor	\$10.87	
W. E. Goodwin, labor on steam valves	1.05	
T. A. Lane Co., labor on boiler	13.34	
F. T. Provost, taking off and putting on win-		
dows	5.65	
John B. Varick Co., hardware	3.53	
	<hr/>	\$34.44

SCHOOLS.

William Brush, removing and repairing statue		
of Abraham Lincoln	\$45.00	
William C. Clarke, paid for telegrams	1.26	
Head & Dowst Co., teaming, Library to High		
school	5.10	
W. H. Hurd, 1 day's board, Wm. Brush	2.00	
	<hr/>	\$53 36

BATTERY BUILDING.

Joel Daniels, paint and glass	\$105.51	
Z. B. Stewart, masonwork	35.60	
	<hr/>	\$141.11

CITY HALL.

Joel Daniels, paint, paper, etc	\$282.60	
F. C. Darrah, roofing material and labor . . .	3.07	
T. A. Lane Co., repairs . . . . .	.69	
Harry A. Piper, labor and material	81.32	
Z. B. Stewart, masonwork	116.70	
	<hr/>	\$484.29

REPORT OF THE CITY AUDITOR.

WARD FIVE WARDROOM.

Joel S. Daniels, paint and labor	\$74.22	
Z. B. Stewart, masonwork	47.30	
		<hr/>
		\$121.52

SUNDRIES.

D. G. Andrews, labor, ward 2 wardroom . . .	\$6.00	
Boston & Maine Railroad, freight . . . . .	.50	
J. P. Brown & Co., use of hack	5.00	
L. B. Bodwell & Co., coal	56.44	
F. A. Dustin, 1 heater, city scales	5.00	
Empire Palm Oil Co., floor polish	76.40	
W. F. Elliott, freight on oil . . . . .	.50	
A. M. Finney, seating chair	1.25	
W. E. Goodwin, plumbing	62.38	
The Gibson Soap Co., soap polish	12.00	
Head & Dowst Co., 1, lettered, marble tablet, erected, Highland schoolhouse	85.00	
C. A. Hoitt & Co., 3 chairs	4.26	
A. K. Hobbs, hose	2.50	
J. G. Jones, freight and cartage	1.14	
R. Landers, repairing roof, ward 5 wardroom .	29.60	
Manchester Heating & Lighting Co., pipe and fittings	6.75	
Harry C. Morrill, brass castings, etc.	1.47	
Harry A. Piper, lumber and labor	18 63	
G. W. Reed, use of hack	5.00	
Shaughnessey & Holland, removing booths and cleaning wardroom, ward 5	18.65	
C. A. Trefethen, care of tower clocks	300.00	
		<hr/>
		\$698.47
		<hr/>
Total expenditures		\$4,786.97
		<hr/>

New Schoolhouse, South Beech Street.

Appropriation	\$10,000.00	
Transferred from unappropriated money . . .	1,962.50	
		<hr/>
		\$11,962.50
		<hr/>

EXPENDITURES.

Chickering & O'Connell, architects, services. .	\$404.50	
Head & Dowst Co., building, per contract . .	11,558.00	
	<hr/>	\$11,962.50

Wilson Hill Engine House.

Appropriation	<hr/>	\$6,000.00
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EXPENDITURES.

Chickering & O'Connell, drawings and specifications	\$150.50	
C. N. Perkins & Co., 1 combination wagon . .	1,700.00	
	<hr/>	\$1,850.50
Total expenditures		\$1,850.50
Transferred to new account		4,149.50
		<hr/>
		\$6,000.00

Playground, Amoskeag Schoolhouse.

Appropriation	<hr/>	\$480.00
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EXPENDITURES.

Transferred to new account	<hr/>	\$480.00
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Water-Works.

Balance from last year unexpended	\$104,823.19	
Cash received from water rents	134,331.48	
	<hr/>	\$239,154.67

EXPENDITURES.

LABOR.

January	\$1,634.03	
February	1,349.60	
March	1,363.89	
April	1,969.01	
May	1,762.05	
June	1,746.72	
July	2,065.67	
August	1,736.32	
September	2,071.52	
October	1,387.55	
November	1,371.03	
December	1,664.61	
	<hr/>	\$20,122.00
E. A. G. Holmes		\$588.13

GENERAL EXPENSES.

William C. Clarke, 4 meetings of board	\$16.00	
William Corey, 10 meetings of board	40.00	
Frank Dowst, 19 meetings of board	76.00	
Charles M. Floyd, 12 meetings of board	48.00	
Alpheus Gay, 7 meetings of board	28.00	
Edgar J. Knowlton, 11 meetings of board . . .	44.00	
Charles H. Manning, 24 meetings of board . .	96.00	
Harry E. Parker, 13 meetings of board	52.00	
City of Manchester, electric light bill	4.20	
John T. Levasseur, use of steamboat	5.00	
C. A. Scarbor, dinners	37.50	
C. K. Walker, superintendent, salary	2,400.00	
Paid for lights	73.25	
Express, telegrams, postage	39.25	
Sundries	36.74	
	<hr/>	\$2,995.94

PRINTING, ADVERTISING, STATIONERY.

John B. Clarke Co., printing notices, etc. . . .	\$97.75	
printing 650 reports	35.00	
advertising and binding 6 books	11.10	
Manchester News Co., notices . . . . .	.60	
E. A. Stratton, stationery	2.13	
Temple & Farrington Co., books and stationery.	21.58	
Union Publishing Co., advertising	6.00	
	<hr/>	\$174.16

WATER-WORKS.

101

TEAMS, TELEPHONE, FUEL.

L. B. Bodwell & Co., coal	\$81.36	
M. L. Cobb, 841-5 tons coal	324.17	
H. R. Dow & Co., teams	20.00	
C. S. Fifield, teams	8.00	
William A. Jepson, coal	1,718.42	
New England Telephone & Telegraph Co., use of telephone	50.84	
J. A. & A. W. Walker, coal	281.08	
Wilson & Bryant, coal	105.00	
	<hr/>	\$2,588.87

LAND.

Mark E. Harvey	\$150.00	
Mrs. Fannie Merrill	1,500.00	
James W. Merrill	1,500.00	
Mrs. Elvira S. Smith	3,200.00	
	<hr/>	\$6,350.00

LEGAL SERVICES.

E. F. Jones	\$394.28
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DAMAGES.

C. C. Babbitt, damage to wall and land by leak.	\$10.00
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BLACKSMITHING, FREIGHT, HARDWARE.

John T. Beach	\$3.50	
Boston & Maine Railroad, freight	329.00	
D. F. Cressey, sharpening tools, etc	319.86	
Manchester Hardware Co., hardware	76.00	
John B. Varick Co., hardware	266.46	
	<hr/>	\$994.82

SUPPLIES.

Adams Brothers, lime, salt, cement	\$19.24
American Locomotive Co., steel plates, leather valves	75.80
Barton & Co., matting	3.47
Builders Iron Foundry, bends, branches, reducers, etc	141.38
Chapman Valve Manufacturing Co., 1 rod . . .	1.49
Chadwick-Boston Lead Co., solder	17.42

Coffin Valve Co., 1 hydrant	\$34.75
Charles A. Claflin & Co., 1 pipe cutter	39.00
Fred C. Darrah, tar . . . . .	.53
Drew Machinery Agency, 2 rods for drill	2.00
M. T. Davidson, supplies	119.21
Eager & Co., soap, matches, etc	3.96
Edson Manufacturing Co., valves, bolts, etc	11.61
Glauber Brass Manufacturing Co., curb stops, nips, etc	329.27
Hays Manufacturing Co., rods and covers	298.88
Head & Dowst Co., lumber, brick, cement	1,466.06
Hersey Manufacturing Co., rotary spindle . . . . .	.20
J. Hodge, meter boxes	90.65
A. K. Hobbs, packing, etc	30.06
C. H. Hutchinson, castings	154.97
T. A. Lane Co., pipe, etc	509.97
Lamb & Ritchie, pipe	182.50
Leonard & Ellis Dep't., oil	25.20
Lead Lined Iron Pipe Co., pipe	610.00
Ludlow Valve Manufacturing Co., gates, caps, valves, etc	309.00
Manufacturing & Selling Co. of America, 1 search light	2.00
Mowry & Phillips, lead	1,055.44
National Meter Co., meters	656.80
Neptune Meter Co., meters	548.25
Norwood Engineering Co., hydrants, cases	359.25
Olmsted & Tuttle Co., waste	7.15
Palmer & Garmon, marble slab	4.00
Perry Oil Co., oil	83.06
Pike & Heald Co., packing, valves, etc	56.50
G. W. Rief, lumber	121.66
Snow Steam Pump Works, on account, steam pump	20,000.00
Harvey Scribner Estate, wood cogs	59.08
Charles Spofford, posts	25.35
Standard Oil Co., oil	10.75
Sumner & Goodwin Co., nips and couplings	48.04
Sweet & Doyle, gates	237.60
Thomson Meter Co., meters	686.52
Tragle Cordage Co., packing	122.36
U. S. Cast Iron Pipe & Foundry Co., pipe	5,771.68
Valvoline Oil Co., cylinder oil	34.45
J. H. Wiggin & Co., soap	4.50
W. A. Wood Co., waste	32.53
Geo. Woodman Co., nips	25.99

 \$34,429.58

WATER-WORKS.

103

REPAIRS.

J. J. Abbott, paper	\$1.56	
Amoskeag Manufacturing Co., labor on pat- terns, boilers, etc	650.10	
E. M. Bryant & Co. repairs	13.32	
James P. Finn, paint and labor	25.00	
Hersey Manufacturing Co., repairing meters .	10.82	
T. A. Lane Co. material and labor	10.44	
National Meter Co. repairing meters	130.75	
Neptune Meter Co., repairing meters	3.55	
Thomson Meter Co., repairing meters	4.84	
Union Water Meter Co., repairing meters . .	307.40	
	<hr/>	\$1,157.78

SUNDRIES.

Town of Auburn, taxes	\$202.75	
A. W. Dudley, surveying	25.00	
Sarah C. Pennock, rent of house	100.00	
Street and Park Commission, material and blast- ing trench	2,062.95	
Trustees of Sinking Fund:		
For payment of water bonds	5,000.00	
Hydrant rental	18,890.00	
	<hr/>	\$26,190.70
Total expenditures		\$95,996.26
Transferred to interest account		36,313.00
Transferred to new account		106,845.41
		<hr/>
		<u>\$239,154.67</u>

Pine Grove Cemetery.

Appropriation	<u>\$10,000.00</u>
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EXPENDITURES.

LABOR.

January	\$204.45
February	171.01

March	\$179.01	
April	519.15	
May	558.91	
June	565.58	
July	651.04	
August	559.59	
September	688.32	
October	431.98	
November	397.33	
December	308.49	
	<hr/>	\$5,234.86

PLANTS, LOAM, ETC.

A. P. Horne & Co., plants	\$93.61	
A. G. Hood, plants	190.00	
Peter Henderson Co., plants	2.25	
J. G. Johnson & Co., Japan iris	7.68	
Kirby Floral Co., plants	73.20	
J. L. Poor, gravel	4.50	
Ray Brook Garden Co., plants	73.60	
The Russia Cement Co., dressing	8.90	
James Thompson, loam	1,155.00	
John B. Varick Co., seed	33.88	
E. H. Whitney, dressing	7.25	
Mrs. C. C. Webster, clay	592.00	
	<hr/>	\$2,241.87

WATER, TELEPHONE, FUEL.

New England Telephone & Telegraph Co., use of telephones	\$45.88	
Union Coal Co., coal	18.00	
Water Commissioners, use of water	251.20	
Wilson & Bryant, coal	7.50	
	<hr/>	\$322.58

PRINTING AND STATIONERY.

John B. Clarke Co., printing	\$13.95	
E. H. Clough, envelopes	8.48	
W. P. Goodman, stationery	4.30	
O. D. Knox, cards and envelopes	2.92	
Temple & Farrington Co., record book	1.00	
Union Publishing Co., advertising notice	1.50	
	<hr/>	\$32.15

PINE GROVE CEMETERY.

105

REPAIRS AND IMPROVEMENTS.

J. J. Abbott, paint	\$1.24	
C. W. Anderson & Co., repairing clocks . . .	1.00	
C. A. Bailey, crushed stone	16.50	
C. S. Bangs, plumbing repairs	303.16	
William Corey, 7 sashes	3.50	
James A. Colby, labor grading	12.00	
John T. Gott, cleaning vaults	5.00	
Head & Dowst Co., brick and cement	11.80	
J. Hodge, lumber	24.49	
J. J. Holland, sulpho-naphthol	1.25	
C. H. Hutchinson, fence	756.00	
Manchester Hardware Co., tools	6.83	
J. Y. McQueston Co., repairing chairs	4.00	
F. E. Nelson, dippers	1.20	
Palmer & Garmon, slate bounds	264.78	
Pike & Heald Co., pipe and cess-pools	140.93	
Robie Consolidated Concrete Co., concrete . .	204.43	
John B. Varick Co., hardware and tools . . .	105.16	
Joseph Vogel & Son, harness repairs . . . .	.95	
G. E. Whittemore, painting, papering, etc. . .	37.02	
	<hr/>	\$1,901.24

TEAM EXPENSES.

John T. Beach, painting dump-cart, repairs .	\$10.25	
C. R. Merrill, grain	128.15	
J. O. & L. P. Tremblay, horseshoeing	22.35	
Joseph Vogel & Son, harness repairs	9.50	
	<hr/>	\$170.25

SUNDRIES.

L. B. Bodwell & Co., ice	\$4.56	
Edwin F. Jones, services as clerk of trustees .	25.00	
J. H. Erskine, expenses, Boston, Convention of American Cemetery Superintendent's Association	16.00	
	<hr/>	\$45.56
Total expenditures		\$9,948.51
Transferred to unappropriated money		51.49
		<hr/>
		<u>\$10,000.00</u>

Valley Cemetery.

Appropriation	\$3.100.00
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EXPENDITURES.

LABOR.

January	\$79.19
February	65.77
March	74.21
April	240.19
May	213.68
June	212.17
July	266.89
August	208.81
September	266.98
October	209.92
November	178.52
December	105.38
	<hr/>
	\$2,121.71

WATER AND TELEPHONE.

New England Telephone & Telegraph Co., use of telephone	\$34.86
Water Commissioners, use of water	37.75
	<hr/>
	\$72.61

PLANTS, LOAM, ETC.

B. F. Bascom, loam	\$30.50
Frank Bodwell, sand	3.60
S. B. Dickey, loam and turf	43.70
J. Francis, plants	60.13
F. M. Goings, loam and sand	99.80
Ray Brook Garden Co., pinks	1.00
John B. Varick Co., seed	20.75
	<hr/>
	\$259.48

PRINTING AND STATIONERY.

C. H. G. Foss, envelopes	\$3.18
Temple & Farrington Co., book and stationery	4.22
	<hr/>
	\$7.40

AMOSKEAG CEMETERY.

107

REPAIRS AND IMPROVEMENTS.

Adams Brothers, cement	\$1.50	
B. F. Baseom, use of team and labor	150.40	
C. N. Baker, repairing and painting fence	9.30	
Frank Bodwell, stone	5.00	
S. B. Dickey, use of team	39.00	
F. M. Goings, use of team	24.00	
Fence	140.63	
Palmer & Garmon, setting over stones	14.65	
Pike & Heald Co., material, repairs, piping lots	149.03	
Walter Roper, whitewashing vault	12.15	
John A. Stacy, cleaning monument	5.00	
R. P. Stevens Co., stone work	1.33	
W. H. Tibbetts, paint and labor	9.75	
John B. Varick Co., hardware	52.77	
Young Brothers, ladders	5.00	
	<hr/>	\$619.51

SUNDRIES.

S. P. Cannon, services as clerk of trustees	\$10.00	
Total expenditures	\$3,090.71	
Transferred to unappropriated money	9.29	
	<hr/>	\$3,100.00
	<hr/>	

Amoskeag Cemetery.

Appropriation	\$250.00
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EXPENDITURES.

SUNDRIES.

A. S. Chadbourne, trees	\$18.04
G. C. Harwood, labor	196.50
A. G. Hood, tulips	15.00

Manchester Hardware Co., wire, seed	\$7.36	
Water Commissioners, use of water	12.00	
		<u>\$248.90</u>
Total expenditures		\$248.90
Transferred to unappropriated money		1.10
		<u>\$250.00</u>

Merrill Yard.

Appropriation	<u>\$100.00</u>
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EXPENDITURES.

SUNDRIES.

Joseph Therrien, labor	\$3.75	
Pay roll: June	4.00	
August	11.72	
		<u>\$19.47</u>
Total expenditures		\$19.47
Transferred to unappropriated money		80.53
		<u>\$100.00</u>

Repairs of Schoolhouses.

Appropriation	<u>\$10,000.00</u>
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EXPENDITURES.

MASONWORK.

E. W. Corning	\$5.15	
F. O. McAuliffe	129.25	
B. W. Robinson	549.77	
Z. B. Stewart	431.65	
C. W. Whittemore	509.86	
		<u>\$1,625.68</u>

PAINTING AND GLAZING.

J. J. Abbott	\$298.16	
J. S. Avery	8.60	
H. Desfosses & Co.	399.53	
W. J. Powers	1.50	
John A. Sargent	800.15	
L. & W. T. Seiberlich	2.50	
		<hr/>
		\$1,510.44

PLUMBING, IRONWORK, REPAIRS.

Amoskeag Manufacturing Co., material and repairs	\$739.99	
E. M. Bryant & Co., lamps, repairs, supplies	61.00	
O. F. Bartlett & Co., plumbing repairs	91.65	
Brodie Electric Co., motor, repairing machine	22.40	
Chandler Adjustable Chair and desk Works, inkwells	4.99	
Robert Cook, repairing bars	1.75	
Derryfield Co., 4 doors	7.00	
George H. Dudley, lumber and labor	1,137.37	
Byron E. Finney, caning chairs	1.30	
Scott Flanders, labor	11.50	
R. D. Gay, shades, fixtures	41.92	
J. L. Hammett Co., slate	13.02	
Hammond Typewriter Co., supplies	2.05	
Head & Dowst Co., lumber and labor	665.99	
electric wiring and fixtures	196.35	
plumbing bill	152.30	
J. Hodge, rail, molding, lumber	24.05	
C. H. Hutchinson, grates and repairing boiler.	199.30	
Charles A. Hoitt & Co., chairs and table	20.50	
T. A. Lane Co., labor, water pipes, cleaning stove pipes, electric batteries, bells, etc.	774.01	
H. J. Lawson, repairing roofs, etc.	676.93	
J. F. Marchand, plumbing repairs	6.35	
Manchester Hardware Co., glue and oil	3.50	
Pike & Heald Co., plumbing repairs, etc.	1,230.34	
Robie Consolidated Concrete Co., filling and grading, concreting	628.13	
B. F. Shepard, repairing locks, etc.	8.75	
John B. Varick Co., hardware	20.87	
C. F. Jack, repairing flag pole	6.10	
A. A. Jenkins, electric supplies and labor	42.25	
		<hr/>
		\$6,791.66

SUNDRIES.

T. F. Fifield, oil	\$1.56	
John T. Gott, cleaning vaults	25.00	
J. G. Jones, freight and cartage	13.92	
Masury, Young & Co., "Nodusto"	26.00	
John W. Regner, reiving flag ropes	1.50	
Wiggin-Young Co., oil, broom . . . . .	.90	
		<hr/>
		\$68.88
Total expenditures		<hr/>
		\$9,996.66
Transferred to unappropriated money		3.34
		<hr/>
		\$10,000.00
		<hr/>

 Printing and Advertising.

Appropriation	<hr/>	\$300.00
		<hr/>

EXPENDITURES.

John B. Clarke Co.:		
printing blanks, cards, reports, etc.	\$232.08	
printing 500 reports	46.06	
Union Publishing Co., advertising examinations	5.04	
		<hr/>
		\$283.18
Total expenditures		<hr/>
		\$283.18
Transferred to unappropriated money		16.82
		<hr/>
		\$300.00
		<hr/>

 Books and Stationery.

Appropriation	<hr/>	\$75.00
		<hr/>

EXPENDITURES.

C. W. Bickford	\$10.00	
W. P. Goodman	12.34	

E. C. Lambert	\$3.18	
Sinclair Manufacturing Co.	3.20	
E. E. Stockbridge	3.94	
Temple & Farrington	12.00	
		<hr/>
		\$44.66
		<hr/>
Total expenditures		\$44.66
Transferred to unappropriated money		30.34
		<hr/>
		\$75.00
		<hr/>

Furniture and Supplies.

Appropriation	\$1,200.00
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EXPENDITURES.

PHYSICAL AND CHEMICAL SUPPLIES, ETC.

L. E. Knott Apparatus Co.	\$160.00	
G. W. O. Tebbetts	26.94	
		<hr/>
		\$186.94

BOOKS AND STATIONERY.

J. L. Hammett Co. books	\$56 17	
Hammond Typewriter Co., typewriters	350.00	
supplies and repairs	5.75	
A. K. Hobbs, rubber bands . . . . .	.20	
Prang Educational Co., compasses	6.15	
Wadsworth, Howland & Co., paints	7.37	
		<hr/>
		\$425.64

FURNITURE, ETC.

Cabinet Letter Press Co., letter press	\$15.00	
Eagle Pencil Co., compasses	7.95	
S. A. Felton & Co., brushes	72.00	
W. F. Hart, drum and sticks	5.50	
James W. Hill Co., flags	21.75	
C. A. Hoitt & Co., chairs and desks	35.50	
A. K. Hobbs, toilet paper, rubber mats, pegs .	28.93	

Kenney Brothers & Wolkins, ink-wells, pitch pipes	\$34.45	
Andrew J. Lloyd & Co., microscopes	118.13	
Manchester Hardware Co., bell, etc. . . . .	.35	
J. Y. McQueston Co., chair . . . . .	.75	
F. E. Nelson, basins . . . . .	.87	
Olmsted & Tuttle Co., maps	1.20	
People's Gas Light Co. stove, tubing	3.10	
Pike & Heald Co., cups, can, etc.	5.44	
Red Cross Chemical Co., disinfectant	6.60	
Richardson, Smith & Co., music chart stands	2.25	
John B. Varick Co., brooms, brushes, dusters, etc	143.78	
J. A. Whitney, 1 brush	2.50	
		<hr/>
		\$506.05

SUNDRIES.

E. M. Bryant & Co., electric supplies and labor	\$40.60	
Eimer & Amend, charcoal	1.40	
Finney & Parker, reseating chairs	1.70	
R. D. Gay, webbing, cord, labor	23.95	
Wiggin-Young Co., oil	1.10	
		<hr/>
		\$68.75
Total expenditures		\$1,187.38
Transferred to unappropriated money		12.62
		<hr/>
		\$1,200.00
		<hr/>

Sewing Materials.

Appropriation	\$250.00
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EXPENDITURES.

S. D. Angell, long cloth	\$25.35	
James W. Hill Co., gingham, thread, needles	110.10	
Annie W. Patten, services as teacher	100.00	
John B. Varick Co., scissors	14.55	
		<hr/>
		\$250.00
Total expenditures		\$250.00
		<hr/>

Fuel.

Appropriation	\$8,800.00	
Transferred from unappropriated money . . .	1,504.02	
	<hr/>	\$10,304.02

EXPENDITURES.

COAL AND COKE

L. B. Bodwell & Co.	\$2,093.29	
Manchester Coal & Ice Co.	333.75	
Moore & Preston	6,870.82	
John P. Russell	135.00	
	<hr/>	\$9,432.86

WOOD.

C. H. Bodwell	\$371.25	
L. B. Bodwell & Co.	3.00	
A. D. Maxwell estate	434.51	
W. E. Woodward	14.00	
	<hr/>	\$822.76

SUNDRIES.

C. S. Fifield, use of team	\$2.00	
E. Lavigne, sawing wood	9.00	
Milton S. Leeds, sawing wood	33.50	
W. J. Powers, setting glass	3.00	
Josephine Riddle, paid for cutting wood90	
	<hr/>	\$48.40

Total expenditures	<hr/>	\$10,304.02
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Contingent Expenses.

Appropriation	\$2,500.00	
Transferred from unappropriated money . . .	7.19	
	<hr/>	\$2,507.19

EXPENDITURES.

FREIGHT AND CARTAGE.

J. G. Jones	\$38.39
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REPORT OF THE CITY AUDITOR.

WATER, GAS, ELECTRIC LIGHTS.

Emma J. Ela, paid for carrying water	\$11.60
Lura K. Kimpton, paid for carrying water	19.00
G. M. Morse, carrying water	19.00
Mrs. Byron Moore, carrying water	6.00
Manchester Traction, Light & Power Co., electric lights	399.20
People's Gas Light Co., gas	305.26
Arabella Rickaby, carrying water	7.50
Water Commissioners, use of water	950.45
	<hr/>
	\$1,718.01

MISCELLANEOUS.

C. A. Anderson, repairing clocks	\$9.00
C. W. Bickford, use of team	124.00
Mande Brown, use of team	30.00
Walter Cody, rent of store for school	100.00
C. W. Davis, use of team	150.00
Oliver Ditson Co., music	20.52
H. R. Dow & Co., use of team	5.00
C. L. Downs, engrossing diplomas	49.75
Ginn & Co., music	34.63
Hardy & Folsom, ribbon	21.02
S. B. Hope, use of team	41.50
George Holbrook, removing snow	14.50
C. A. Hoitt & Co., use of chairs	20.05
A. A. Jenkins, tuning pianos	20.25
T. J. Lemay, repairing clocks	3.50
Manchester Mills, soap	19.50
E. Mahoney, mowing and cleaning yard . . . . .	.50
J. Y. McQueston Co., rent of chairs	5.10
New England Telephone & Telegraph Co., use of telephone	19.00
Perry Picture Co., subscription to magazine	1.00
Pay-Roll Division No. 2:	
February	8.81
March	6.25
December	16.06
D. A. Simons, rent of chairs	6.00
Silver, Burdett & Co., books	1.15
C. A. Trefethen, repairing clocks	23.70
	<hr/>
	\$750.79
Total expenditures	<hr/>
	\$2,507.19

Care of Schoolrooms.

Appropriation	\$6,500.00	
Transferred from unappropriated money . . .	22.13	
	<hr/>	\$6,522.13

EXPENDITURES.

JANITORS.

John S. Avery	\$600.00	
William Barry	39.78	
Edwin N. Baker	349.92	
S. H. Batchelder	499.92	
Joseph H. Buffum	41.66	
Charles Corey	199.92	
J. B. Chalifoux	249.96	
Robert Cook	458.26	
William F. Connor	520.77	
Emma J. Ela	23.00	
Anabelle Flanders	23.00	
V. H. Hill	486.06	
Charles F. Jack	649.92	
George H. Jack	549.96	
Lura K. Kimpton	36.50	
Edward Kennedy	22.50	
W. H. Newry	645.00	
W. J. Powers	600.00	
Josephine Riddle	40.00	
Annabelle Rickaby	15.00	
William Stevens	399.96	
Inez M. Warren	38.00	
	<hr/>	\$6,489.09

SUNDRIES.

Francois Bouchard, cleaning	\$14.04	
C. W. Bickford, paid for cleaning	10.00	
Mrs. Kennedy, cleaning	4.00	
A. N. Nettel, cleaning	3.00	
Inez M. Warren, paid for cleaning	2.00	
	<hr/>	\$33.04
Total expenditures		<hr/> <hr/> \$6,522.13

Evening Schools.

Appropriation	\$1,200.00
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EXPENDITURES.

SALARIES.

C. E. Cochran	\$116.00
Honorie J. Crough	116.00
Marianna Fitts	43.00
Irving Forbes	58.00
Margaret Linen	58.00
Julia McNamara	34.00
William J. Mooar	58.00
Myra Moore	58.00
A. W. Morgan	116.00
Adelia Murphy	47.00
Endie Nourry	58.00
Mary E. Paige	58.00
Arthur W. Rowell	58.00
Minnie Sullivan	58.00
Dora B. Tuson	58.00
Mary A. Walker	49.00
	<hr/>
	\$1,043.00

SUNDRIES.

S. H. Batchelder, janitor	\$29.00
John B. Clarke Co., printing placards	7.00
Joseph Chalifonx, janitor	29.00
V. H. Hill, janitor	46.40
T. A. Lane Co., mantles, etc. . . . .	.95
	<hr/>
	\$112.35

Total expenditures	\$1,155.35
Transferred to unappropriated money	44.65
	<hr/>
	\$1,200.00

Evening School, Mechanical Drawing.

Appropriation	\$250.00
Transferred from unappropriated money	2.00
	<hr/>
	\$252.00

FREE TEXT-BOOKS.

117

EXPENDITURES.

SALARIES.

H. W. Allen	\$126.00	
John M. Kendall	126.00	
	<hr/>	\$252.00
Total expenditures		<hr/> <hr/> \$252.00

Teachers' Salaries.

Appropriation	\$91,000.00	
Transferred from unappropriated money . . .	2,779.80	
	<hr/>	\$93,779.80
		<hr/> <hr/>

EXPENDITURES.

SALARIES.

January	\$9,816.89	
February	9,637.46	
March	10,175.06	
April	7,086.79	
May	10,030.44	
June	10,166.99	
September	7,166.62	
October	9,868.36	
November	9,919.39	
December	9,911.80	
	<hr/>	\$93,779.80
Total expenditures		<hr/> <hr/> \$93,779.80

Free Text-Books.

Appropriation	\$6,000.00	
Received from sale of books	200.00	
	<hr/>	\$6,200.00
		<hr/> <hr/>

EXPENDITURES.

TEXT-BOOKS AND SUPPLIES.

Allyn & Bacon	\$112.25
American Book Co.	502 46
D. Appleton & Co.	3.00
Atkinson & Mentzer	81.95
E. E. Babb & Co.	664.21
F. J. Barnard & Co.	182.95
Boston School Supply Co.	22.12
T. H. Castor & Co.	49.60
Cosmos Picture Co.	1.09
H. Dangel & Co.	11.00
Joel Daniels & Co.	3.90
DeWolfe, Fiske & Co.	2.83
Oliver Ditson Co.	4.20
Educational Publishing Co.	15.97
N. H. Earle & Co.	38.50
Herman Goldberger	3.40
W. P. Goodman	40.35
Ginn & Co.	\$93.39
Gregg Publishing Co.	60.50
J. L. Hammett Co.	371.06
D. C. Heath & Co.	405.86
Houghton, Mifflin & Co.	19.45
Holden Patent Book Cover Co.	15.00
Journal of School Geography	1.50
G. F. King & Co.	254.16
E. L. Kellogg & Co.	1.00
Kenney Brothers & Wolkins	97.82
Lee & Shepard	10.15
Maynard, Merrill & Co.	3.60
G. & C. Merriam Co.	8.65
F. E. Nelson	6.38
The Palmer Co.	3.00
G. S. Perry & Co.	38.25
Prang Educational Co.	489.29
Richardson, Smith & Co.	127.04
Sibley & Ducker	7.27
Charles Scribner's Sons	20.81
Silver, Burdett & Co.	362.52
Sinclair Manufacturing Co.	39.14
E. A. Stratton	14.65
Thompson, Brown & Co.	472.99
University Publishing Co.	38.70
Wadsworth, Howland & Co.	9.74

MANUAL TRAINING.

119

William Ware & Co.	\$46.75	
W. H. Wheeler Co.	19.48	
	<hr/>	\$5,577.84

SUNDRIES.

J. G. Jones, freight and cartage	\$82.93	
Fannie L. Sanborn, superintendent's clerk . .	500.00	
	<hr/>	\$582.93
Total expenditures		\$6,160.77
Transferred to unappropriated money		39.23
		<hr/>
		<u>\$6,200.00</u>

Manual Training.

Appropriation	<u>\$500.00</u>
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EXPENDITURES.

SUNDRIES.

Fred E. Browne, supplies	\$5.80
Chandler & Farquhar, supplies	7.50
W. F. Chickering, lathe	2.55
Mrs. N. J. Davis, repairing and washing aprons	4.25
Drew Machinery Agency, wood pulleys . . .	7.50
J. L. Hammett Co., paper	6.00
A. K. Hobbs, belting, etc.	2.25
J. Hodge, lumber	26.10
W. F. Hubbard, lumber	121.48
J. G. Jones, freight and cartage	3.24
Manning, Maxwell & Moore:	
Lathe	210.00
Supplies	22.53
Palmer, Parker & Co., lumber	7.24
Star Stamp Co., numbering machine	8.10
E. A. Stratton, blue print	1.65

Temple & Farrington Co., paper, cardboard . .	\$4.00	
John B. Varick Co., hardware	57.83	
		<hr/>
		\$498.02
Total expenditures		<hr/>
		\$498.02
Transferred to unappropriated money		1.98
		<hr/>
		\$500.00
		<hr/>

Paupers off Farm.

Appropriation	\$9,900.00	
Transferred from unappropriated money . . .	2,566.53	
		<hr/>
		\$12,466.53
		<hr/>

EXPENDITURES.

GROCERIES AND MEATS.

F. W. Barlow	\$18.00
George Boynton	23.70
George Boisvert	27.00
L. P. Chandonnet	15.97
C. H. Clark	21.00
County & Dahlberg	3.00
H. F. Colburn & Co.	3.00
Desrochers & Poirier	69.00
Eager & Co.	44.00
C. A. Friborg	8.00
T. F. Fifield	81.00
Arthur Gagne	8.00
P. F. Grenier	7.00
J. J. Grenier	8.00
Felix Harbour	6.00
B. L. Hartshorn	54.96
Mrs. Mary Hayes	243.00
J. F. Healy	297.25
Reinhardt Hecker	19.00
John A. Kane	112.00
N. S. LaSalle & Co	116.05
J. N. Lacourse	7.00
G. Lein & Son	1,154.09
Lindquist Brothers	92.00

PAUPERS OFF FARM.

121

P. D. Lynch	\$603.00
G. C. Lord	24.00
Maynard & Dupont	591.00
M. R. Maynard & Co	284.00
E. J. Madden	222.57
T. H. Mahoney	217.50
Oscar McDuffie	65.00
Martin McIntire	64.00
Ulric Messier & Co	14.00
A. W. Morse	10.00
E. F. Murray	35.00
North End Provision Co	34.00
O. H. Nourry	110.00
John W. Nye	13.00
Parnell Brothers	30.00
Frank I. Paige	16.00
F. X. Parent	38.00
E. W. Perkins	12.00
Edmond Pinard	57.00
F. H. Poore	25.00
Eugene Quirin	875.00
M. Peloquin & Co	52.00
W. M. Robinson	44.90
J. O. Robitaille	135.25
M. A. Sheehan	989.50
Splane & Messier	2.48
Eugene Sigrist	20.00
Swinston & Robinson	6.00
Guy T. Robinson	30.00
A. L. Robitaille & Co	25.11
W. J. Price	13.00
Trahan & Co	8.00
Joseph Trahan	40.00
Aime Trottier	125.00
Vermont Butter Co	1.00
Calixte Vigneault	19.00
Wallace & Knox	209.00
E. L. White	1.80

\$7,500.13

FUEL.

P. Beauchamp & Son	\$2.50
Charles Boisclair & Co	46.15
Charles H. Bodwell	252.32
L. B. Bodwell & Co	15.13

Edward Bourque	\$19.00
J. H. DeCourcy Co	57.26
W. E. Dunbar & Son	3.75
Alexis Ferland	38.00
C. A. & A. W. Flint	58.40
August Gellrich	15.00
Philius Graveline	15.50
E. C. Haskell & Son	9.00
Manchester Coal & Ice Co	130.40
J. Masse	4.75
A. D. Maxwell estate	138.25
Moore & Preston	70.50
People's Gas Light Co	37.25
Omar Pepin	39.25
D. M. Poore	7.50
E. W. Poore	31.00
Raiche & Laforce	19.30
Mrs. August Schink	9.05
E. V. Turcotte	20.50
Albert Warren	7.50
Henry Weber	10.75
W E. Woodward	125.00

 \$1,183.01

BOARD, CARE, AND RENT.

Mrs. Olive Anger	\$98.00
Gideon Belisle	44.00
Mrs. C. M. Bennett	30.00
Kate Burton	5.00
Catherine Clancy	72.00
Eugene Collity	72.00
Adelard Dumas	24.00
Mrs. Theodore Dupont	10.00
Margaret Eagan	20.00
W. H. Gilmore	104.00
Florence Hardy	72.00
Hillsborough County	808.61
Mark F. Hill	60.00
Henry Hitschfeld	10.00
Infant Asylum	133.00
W. H. Maxwell	115.00
Mrs. Kate McKenna	40.00
Margaret McFarland	16.00
N. H. State Hospital57
Notre Dame Orphanage	60.00
Notre Dame Hospital	42.00

PAUPERS OFF FARM.

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James Orr	\$40 00	
Mrs. Alvina Pohlman	8.00	
Sacred Heart Hospital	68.50	
State Industrial School	88.92	
St. Joseph's Boys' Home	10.00	
St. Joseph's Orphanage	35.00	
St. Patrick's Orphanage	125.00	
John Sweeney	10.00	
Mrs. Ellen Sullivan	100.00	
Ellen Shughrue	12.00	
Henry Volkmann	80.00	
Mrs. C. Waters	6.00	
Women's Aid Home	152.00	
		<hr/>
		\$2,571.60

BOOTS AND SHOES.

E. C. Brigham	\$2.00	
J. W. Campbell	14.25	
John Cayzer	5.15	
E. C. Chagnon & Co.	5.00	
Patrick Costello	6.25	
Costello Brothers	63.35	
Dodge & Dodge	11.55	
G. W. Dodge Shoe Co.	8.00	
W. P. Farmer	13.40	
J. T. Lemire & Co.	6.15	
Pellerin & Simard	23.25	
Patrick Power	5.25	
Gideon Richard	5.00	
Barney Salner	1.75	
D. F. Shea	37.60	
Swanson & Co.	37.00	
		<hr/>
		\$244.95

CLOTHING.

Besse, Eldridge & Co.	\$23.51	
C. M. Floyd	7.50	
Hardy & Folsom	3.00	
William Marcotte & Co.	5.75	
M. A. McDonough	16.80	
Joseph Nightingale	20.50	
Joseph St. Yves & Co.	10.00	
		<hr/>
		\$87.06

REPORT OF THE CITY AUDITOR.

MEDICINE, MEDICAL SERVICES, FUNERAL EXPENSES.

H. D. W. Carvelle, M.D., surgical and special treatment	\$62.50	
F. X. Chenette, burial outfits	60.00	
H. H. Dinsmore, M.D., assisting Dr. Perkins	5.00	
A. L. Gadbois & Co., burial outfit	25.00	
J. J. Holland, medicine	15.95	
M. E. Kean, M.D., medical services	3.00	
McDonough & Shea, burial outfit	25.00	
M. Potvin & Co., medicine	2.00	
Gillis Stark, M.D., medical services	1.50	
F. H. Thurston, medicine	475.79	
George D. Towne, M.D., medical services	3.00	
E. V. Turcotte, burial outfits	60.00	
F. L. Wallace, burial outfit	25.00	
F. L. Way, medicine . . . . .	.50	
H. J. Woods, malted milk	5.10	
		<hr/>
		\$769.34

SUNDRIES.

Boston & Maine Railroad, tickets	\$9.38	
C. B. Clarkson, paid conveyance to N. H. Hospital	4.05	
John B. Clarke Co., printing blanks	21.50	
W. P. Goodman, directories and stationery	31.00	
H. F. Hull, use of team	4.00	
Henry Lein, conveyance seven people to Lowell	2.76	
E. G. Libbey, use of hack	5.00	
Manchester Street Railway, tickets	30.00	
T. F. Sheehan, expenses to Concord with insane person	2.75	
		<hr/>
		\$110.44
Total expenditures		<hr/>
		\$12,466.53
		<hr/>

City Farm.

Appropriation	\$8,600.00
	<hr/>

CITY FARM.

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EXPENDITURES.

E. G. Libbey, superintendent	\$500.00	
Mrs. E. G. Libbey, matron	300.00	
		<hr/>
		\$800.00

HOUSE AND FARM LABOR.

January	\$176.43	
February	123.31	
March	96.66	
April	170.64	
May	144.50	
June	153.92	
July	195.89	
August	160.50	
September	191.48	
October	151.89	
November	143.76	
December	195.23	
		<hr/>
		\$1,904.21
Walter Baird	\$3.67	
Harry Burroughs	4.66	
Etta Gleve	5.50	
David Hunter	2.00	
Sylvester Kelleher	6.00	
Frank P. Kenerson	18.00	
H. J. Rush	4.00	
Maggie Twoomey	10.39	
Edward Welch	4.66	
		<hr/>
		\$58.78

FUEL.

C. H. Bodwell, wood	\$255.50	
L. B. Bodwell & Co., coal	95.00	
W. E. Dunbar & Son, coal	10.00	
		<hr/>
		\$360.50

CLOTHING, DRY GOODS, ETC.

Barton & Co., cotton, hose, gingham, etc. . .	\$31.85
Besse, Eldridge & Co., clothing	22.75
A. L. Dyer, shoes	11.40
G. W. Dodge Shoe Co., rubber boots	15.30
W. P. Farmer, boots and shoes	10.50

C. M. Floyd, clothing	\$37.00
James W. Hill Co., dry goods	41.79
H. M. Moody, clothing	12.00

\$182.59

MEATS AND PROVISIONS.

C. A. Allen	\$15.87
F. W. Barlow	30.31
E. Booth	9.55
Bruno Brothers	18.75
J. Bruno	9.50
C. H. Clark	69.49
Daniels-Cornell Co.	126.99
C. H. Durgin	15.89
Eager & Co.	11.08
A. M. Eastman	61.35
T. F. Fifield	52.62
T. J. Foley & Co.	33.60
D. A. Gallagher	8.00
Granite State Beef Co.	2.47
Granite State Grocery Co.	10.92
Ernest W. Hardy	4.08
H. A. Horton	4.80
D. Johnson	6.80
W. D. Ladd & Co.	13.12
Lang & Ruiter	50.00
Manchester Beef Co.	14.06
Manchester Provision Co.	244.79
T. H. Mahoney	20.50
Horace Marshall	8.09
Maynard & Dupont	25.42
M. R. Maynard & Co.	179.17
Nelson Morris & Co.	24.07
J. W. Nye	114.58
Ocean Fish Market	41.34
Henry Parker	307.94
Parnell Brothers	252.42
C. B. Perkins	11.49
Rogers, Perley & Ferguson	97.04
E. M. Slayton Co.	19.00
W. F. Schonland	10.35
John P. Squires & Co.	15.71
Summer Street Market	175.26
J. O. Turcotte	4.58
J. H. Wiggin & Co.	59.45

\$2,180.45

CITY FARM.

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FURNITURE, KITCHEN UTENSILS.

C. A. Hoitt & Co., spring, couch, curtains, dishes, etc.	\$37.32	
R. K. Horne, crockery and tinware	18.05	
F. E. Nelson, crockery and tinware	4.45	
	<hr/>	\$59.82

MEDICINE, MEDICAL AND VETERINARY SERVICES.

H. H. Dinsmore, M. D., assisting Dr. Perkins	\$5.00	
A. L. Dodge, V. S., visits and medicine . . .	4.00	
J. J. Holland, disinfectant	4.25	
F. K. Hubbard, medicine	4.00	
Marshall & Knowlton, medicine . . . . .	.25	
Gillis Stark, M. D., 1 visit	1.50	
F. H. Thurston, druggists' sundries	34.65	
A. F. Wheat, M. D., medical attendance . . .	5.00	
	<hr/>	\$58.65

BLACKSMITHING, HARNESES, ETC.

W. G. Berry, 1 lap robe	\$4.00	
W. E. Greeley, repairing harness	2.00	
A. K. Hobbs, harness, leather, buckles, etc. .	4.84	
Kimball Carriage Co., harness supplies, Peel's Food	56.75	
Harry Lambert, horseshoeing	1.65	
J. H. May, brushes	6.75	
Donald McDonald, blacksmithing	102.55	
H. C. Rauno & Son, bridle fronts	2.10	
J. O. & L. P. Tremblay, horseshoeing	114.65	
Joseph Vogel & Son, repairing harnesses . . .	6.10	
N. J. Whalen, repairs and supplies	50.72	
John F. Woodbury, horseshoeing	26.00	
	<hr/>	\$378.11

CARRIAGE REPAIRS.

J. B. McCrillis & Son	\$33.18	
Donald McDonald	39.60	
Sanborn Carriage Co.	39.80	
	<hr/>	\$112.58

HAY, GRAIN, ETC.

Adams Brothers	\$47.25	
A. S. Brown	405.15	
C. R. Merrill	801.24	
	<hr/>	\$1,253.64

HARDWARE AND FERTILIZERS.

Manchester Hardware Co	\$20.15	
James J. H. Gregory & Son	18 69	
John B. Varick Co	315.10	
	<hr/>	\$353.94

PREMIUM ON INSURANCE POLICIES.

W. G. Berry	\$52.50	
George Blanchet	8.75	
Robert R. Chase	21.88	
John Dowst	17 50	
Everett & Scott	26.25	
John A. Sheehan	61.25	
Fred R. Stark	8.75	
	<hr/>	\$196.88

PRINTING, ADVERTISING, STATIONERY, TELEPHONE.

City News Co., stationery	\$1.25	
W. P. Goodman, book and stationery	14.10	
New England Telephone & Telegraph Co., use of telephone	25.42	
Sampson, Murdock & Co., 1 directory	2.00	
E. A. Stratton, tags . . . . .	.35	
Union Publishing Co., advertising	1.24	
	<hr/>	\$44.36

REPAIRS AND IMPROVEMENTS.

J. J. Abbott, paint, glass, etc.	\$41.88
Harry Benard, braces on chairs	4.60
Thomas Briggs, repairing can and tank	1.00
Fred C. Darrah, roofing material and labor	15.27
Drew Machinery Agency, repairing boiler	4.53
Head & Dowst Co., lumber	71.57
J. Hodge, lumber, etc	22.79
A. K. Hobbs, leather, etc	12.33

T. A. Lane Co., plumbing and electric material and labor	\$63.62	
electric fan	13.00	
Pike & Heald Co., coal hods, dippers, repairs	12.96	
Harry A. Piper, material and labor	17.60	
J. A. Rose, lumber	13.44	
Harriet B. Varney, sawdust	8.00	
F. T. Provost, lumber and labor	27.10	
	<hr/>	\$329.69

SUNDRIES.

American Express Co., express	\$0.30	
Ira Barr, 1 heifer	5.00	
L. B. Bodwell & Co., filling ice house	10.00	
John B. Clarke Co., "Daily Mirror"	7.00	
H. R. Dow & Co., use of hacks	15.00	
Globe Suspender Manufacturing Co., hair brushes	3.75	
Kean & Sheehan, use of hack	5.00	
King Dental Co., extracting teeth	1.00	
E. G. Libbey, stamps, etc	7.66	
Manchester & Concord Express Co., express . . . . .	.30	
Manchester Employment Agency, furnishing cook . . . . .	.50	
Manchester Slaughtering & Rendering Co., dressing hogs	2.00	
Manchester Traction, Light & Power Co., electric lights	103.96	
H. J. Marsh, pasturing cattle	26.50	
N. P. Stevens, labor on road machine	6.75	
E. F. Tuson, keys . . . . .	.25	
A. A. Warren, oil	4.90	
Water Commissioners, use of water	90.20	
Wheeler & Wilson Manufacturing Co., needles . . . . .	.75	
	<hr/>	\$290.82
Total expenditures	\$8,565.12	
Transferred to unappropriated money	34.88	
	<hr/>	\$8,600.00
	<hr/>	

Indigent Soldiers.

Appropriation	\$130.00
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EXPENDITURES.

GROCERIES.

North End Provision Co	\$7.00	
Fred H. Poore	70.00	
	<hr/>	\$77.00

FUEL.

A. D. Maxwell estate	\$33.00	
Moore & Preston	7.00	
	<hr/>	\$40.00

Total expenditures		\$117.00
Transferred to unappropriated money		13.00
		<hr/>
		\$130.00
		<hr/> <hr/>

File and Index System.

Balance from last year unexpended	\$410.00
	<hr/> <hr/>

EXPENDITURES.

E. A. McMillin, document binded	\$3.50	
Anna S. Smith, labor	200.00	
	<hr/>	\$203.50
Total expenditures		\$203.50
Transferred to new account		206.50
		<hr/>
		\$410.00
		<hr/> <hr/>

Board of Examiners of Plumbers.

Appropriation	\$100.00
	<hr/> <hr/>

BAND CONCERTS.

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EXPENDITURES.

J. J. Abbott, paint, brushes, etc.	\$6.34	
John B. Clarke Co., printing 300 reports . . .	3.25	
T. A. Lane Co., gasoline, brass	1.15	
Pike & Heald Co., gasoline, lead, solder, etc. .	4.17	
R. M. Starbuck, charts, questions, etc.	11.75	
E. A. Stratton, paper	2.20	
	<hr/>	\$28.86
Total expenditures		\$28.86
Transferred to unappropriated money		71.14
		<hr/>
		\$100.00
		<hr/>

Band Concerts.

Appropriation	<hr/> <hr/> \$400.00
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EXPENDITURES.

Manchester Cadet Band	\$100.00	
Manchester City Band	100.00	
Manchester Military Band	100.00	
Turner Band	100.00	
	<hr/>	\$400.00
Total expenditures		<hr/> <hr/> \$400.00

Militia.

Appropriation	<hr/> <hr/> \$800.00
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EXPENDITURES.

Company C, First Regiment, N. H. N. G. . . .	\$100.00
Company F, First Regiment, N. H. N. G. . . .	100.00
Company H, First Regiment, N. H. N. G. . . .	100.00
Company L, First Regiment, N. H. N. G. . . .	100.00
Louis Bell Post, No. 3, G. A. R.	100.00

Joseph Freschl Post, No. 94, G. A. R.	\$100.00	
Manchester War Veterans	100.00	
		<u>\$700.00</u>
Total expenditures		\$700.00
Transferred to new account		100.00
		<u>\$800.00</u>

Decoration of Soldiers' Graves.

Appropriation	<u>\$400.00</u>
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EXPENDITURES.

Joseph Freschl Post, G. A. R.	\$100.00	
Louis Bell Post, No. 3, G. A. R.	300.00	
		<u>\$400.00</u>
Total expenditures		<u>\$400.00</u>

Purchase of Land Sold for Taxes.

Appropriation	\$6,800.00	
Transferred from unappropriated money . . .	911.75	
		<u>\$7,711.75</u>

EXPENDITURES.

George E. Morrill, purchased for city	<u>\$7,711.75</u>
Total expenditures	<u>\$7,711.75</u>

Abatement of Taxes.

Appropriation	\$2,000.00	
Received from bonds sold	80,000.00	
Premium on bonds sold	3,020.00	
		<u>\$85,020.00</u>

STATE TAX.

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EXPENDITURES.

Amoskeag Manufacturing Co.:	
Judgment, 1898	\$19,334.66
Judgment, 1899	18,654.66
Judgment, 1900	19,825.00
Judgment, 1901	24,765.96
H. H. Dustin, taxes bought	22.18
George E. Morrill, sundry persons	1,692.77
	<u>\$84,295.23</u>
Total expenditures	\$84,295.23
Transferred to unappropriated money	724.77
	<u><u>\$85,020.00</u></u>

State Tax.

Appropriation	<u>\$63,869.00</u>
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EXPENDITURES.

State of New Hampshire	<u>\$63,869.00</u>
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County Tax.

Appropriation	<u>\$94,382.00</u>
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EXPENDITURES.

County of Hillsborough	<u>\$94,382.00</u>
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Elliot Hospital.

Appropriation	<u>\$300.00</u>
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EXPENDITURES.

Elliot Hospital, amount appropriated	<u>\$300.00</u>
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Notre Dame de Lourdes Hospital.

Appropriation	<u>\$300.00</u>
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EXPENDITURES.

Notre Dame de Lourdes Hospital, amount appropriated . .	<u>\$300.00</u>
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Sacred Heart Hospital.

Appropriation	<u>\$300.00</u>
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EXPENDITURES.

Sacred Heart Hospital, amount appropriated	<u>\$300.00</u>
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Women's Aid Home.

Appropriation	<u>\$300.00</u>
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EXPENDITURES.

Women's Aid Home, amount appropriated	<u>\$300.00</u>
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W. C. T. U. Mercy Home.

Appropriation	<u>\$300.00</u>
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EXPENDITURES.

W. C. T. U. Mercy Home, amount appropriated	<u>\$300.00</u>
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Resolution Raising Money and Making Appropriations for the year Nineteen Hundred and Two.

Resolved by the Common Council of the City of Manchester in City Council assembled, as follows:

That the sum of seven hundred thirty-eight thousand three hundred sixty-nine dollars and forty-six cents, (\$738,369.46) be raised by tax on the

APPROPRIATIONS.

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polls and estates liable thereon, for the use of the city for the year 1902, which sum, together with such unappropriated money as may now be in the city treasury, or may hereafter come into it, shall be appropriated as follows:

CENTRAL DEPARTMENT.

Interest	\$42,000.00
Sinking Fund, trustees	27,000.00
City Hall	3,800.00
Printing and stationery	1,850.00
Incidental expenses	8,500.00
Land sold for taxes	6,800.00
Mayor's incidentals	300.00
City officers' salaries	27,900.00
Payment of funded debt	10,000.00
Temporary loan	15,709.00
Auditor's department	2,500.00
Engineer's department	6,874.73
Abatement of taxes	2,000.00
State tax	63,869.00
County tax	94,382.00

STREET AND SEWER DEPARTMENT.

Street and park commissioners	\$3,500.00
Repairs of highways	25,000.00
New highways	7,000.00
Watering streets	4,700.00
Macadamizing streets	10,000.00
Grading for concrete	3,500.00
Scavenger service	18,000.00
Street sweeping	2,500.00
Bridges	6,000.00
City teams	7,000.00
Repairs of sewers	5,000.00
New sewers	20,000.00
Snow and ice	6,500.00
Paving Elm Street	12,000.00
Paving Canal street	4,000.00
Paving streets	4,000.00
Unappropriated money	5 000.00

SCHOOL DEPARTMENT.

Repairs of schoolhouses	\$10,000.00
Fuel	8,800.00

Furniture and supplies	\$1,200.00
Printing and advertising	300.00
Books and stationery	75.00
Contingent expenses	2,500.00
Care of rooms	6,500.00
Evening schools	1,200.00
Teachers' salaries	91,000.00
Evening schools, mechanical drawing	250.00
Free Text-Books	6,000.00
Manual training	500.00
Sewing material	250.00

FIRE DEPARTMENT.

Fire department	\$70,350.00
Fire-alarm telegraph	1,700.00
Hydrant service	18,800.00
Wilson Hill engine house and combination chemical	6,000.00

PUBLIC BUILDINGS.

Repairs of buildings	\$4,625.00
Commons	4,500.00
Stark park	1,000.00
Derryfield park	500.00
Pine Grove cemetery	10,000.00
Valley cemetery	3,100.00
Merrill Yard	100.00
Plumbing inspectors	100.00
South Beech street schoolhouse	10,000.00
South Manchester playground	50.00
Amoskeag cemetery	250.00

HEALTH DEPARTMENT.

Health department	\$6,800.00
Isolation hospital	3,000 00

CITY LIBRARY.

City library	\$6,200.00
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PATRIOTIC, CHARITABLE, AND PHILANTHROPIC.

Paupers off farm	\$9,900.00
City farm	8,600.00

APPROPRIATIONS.

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Indigent soldiers	\$130.00
Women's Aid Home	300.00
Elliot hospital	300.00
Sacred Heart hospital	300.00
Notre Dame de Lourdes hospital	300.00
Mercy home	300.00
Decoration of soldiers' graves	400.00
Co. C, First Regiment, N. H. N. G.	100.00
Co. F, First Regiment, N. H. N. G.	100.00
Co. A, First Regiment, N. H. N. G.	100.00
Co. L, First Regiment, N. H. N. G.	100.00
Joseph Freschl Post, G. A. R.	100.00
Louis Bell Post, G. A. R.	100.00
Manchester War Veterans	100.00
Spanish War Veterans	100.00
Band concerts	400.00

POLICE DEPARTMENT.

Police commission	\$43,600.00
Police court	2,900.00
Police station	2,500.00

LIGHTING STREETS.

Lighting Streets	\$61,000.00
Passed February 11, 1902.	

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.

Resident and non-resident.	Polls.		Dogs.*			Real estate, value.	Stock in trade.	Money on hand, at interest, or on deposit, value.	Horses, asses, and mules, over 18 months old.		Carriages, value.	Cows, oxen, and other neat stock over 18 months old.	
	No.	Value.	Male.	Female.	Tax.				No.	Value.		No.	Value.
1890.....	9,723	\$972,300	710	51	\$812.00	\$18,898,190.00	\$2,351,102.00	\$378,226.00	1,797	\$172,186.00	\$50,400.00	717	\$15,470.00
1891.....	10,367	1,036,700	713	49	811.00	14,124,570.00	2,332,752.00	382,026.00	2,151	185,866.00	53,496.00	671	12,944.00
1892.....	10,673	1,067,300	700	43	786.00	14,910,978.00	2,355,780.00	375,694.00	2,235	200,182.00	53,590.00	616	12,580.00
1893.....	11,835	1,183,500	.....	.....	.....	16,003,370.00	2,554,818.00	425,334.00	2,777	210,032.00	59,516.00	551	11,656.00
1894.....	12,103	1,210,300	.....	.....	.....	16,956,070.00	2,421,954.00	519,500.00	2,608	200,376.00	57,226.00	452	9,618.00
1895.....	12,244	1,224,400	.....	.....	.....	17,088,224.00	2,435,546.00	149,592.00	2,639	196,264.00	59,128.00	431	9,710.00
1896.....	12,583	1,258,300	.....	.....	.....	18,358,266.00	2,421,862.00	147,148.00	2,644	184,790.00	57,440.00	410	9,308.00
1897.....	12,921	1,292,100	.....	.....	.....	18,763,182.00	2,772,460.00	113,288.00	2,617	174,746.00	57,810.00	507	10,920.00
1898.....	12,808	1,280,800	.....	.....	.....	19,175,434.00	2,782,386.00	167,100.00	2,640	171,242.00	56,668.00	551	12,400.00
1899.....	13,137	1,313,700	.....	.....	.....	19,301,762.00	3,039,419.00	176,388.00	2,648	169,977.00	58,129.00	619	14,570.00
1900.....	18,759	1,375,900	.....	.....	.....	19,669,249.00	3,509,072.00	1,293,585.00	2,755	174,593.00	88,500.00	704	16,690.00
1901.....	13,976	1,397,600	.....	.....	.....	19,922,261.00	3,888,517.00	394,436.00	2,669	174,242.00	99,976.00	551	14,076.00
1902.....	14,079	1,407,900	.....	.....	.....	19,983,327.00	3,536,583.00	1,173,222.00	2,621	180,157.00	120,369.00	519	13,414.00

* Dog taxed repealed. See chapter 6, January Laws of 1893.

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.—Continued.

Hogs.	Sheep over 6 months old.		Fowls.		Stock in banks and other corporations, value.	Stock in public funds and bonds, value.	Factories and their machinery, value.	Total value.	Rate of tax per hundred.	Tax levied.	Total, including dog tax.
	No.	Value.	No.	Value.							
104	\$1,040.00	17	\$46.00		\$280,500.00	\$19,900.00	\$6,008,450.00	\$24,207,740.00	\$1.91	\$462,057.17	\$462,789.00
115	932.00	12	30.00		290,100.00	19,900.00	6,432,576.00	24,872,492.00	1.78	442,730.76	443,541.76
85	572.00	14	42.00		301,700.00	4,400.00	6,649,000.00	25,932,044.00	1.95	505,673.17	506,465.17
12	120.00	13	38.00		317,000.00	5,000.00	6,667,906.00	27,433,742.00	1.85	507,640.68	507,640.68
73	820.00	40	80.00		230,000.00	22,100.00	6,703,050.00	28,391,710.00	1.78	505,372.44	505,372.44
52	524.00	29	62.00		263,166.00	1,400.00	6,774,350.00	28,801,122.00	1.74	502,183.02	502,183.02
26	260.00	43	90.00		249,104.00	2,000.00	6,755,100.00	29,443,608.00	1.86	547,651.50	547,651.50
45	470.00	33	56.00		233,204.00		7,008,650.00	30,486,946.00	2.08	634,127.80	634,127.80
69	490.00	43	64.00		250,034.00		7,090,300.00	30,988,488.00	1.95	604,280.57	
45	418.00	11	24.00		222,400.00		6,204,181.00	31,491,784.00	1.95	614,096.93	
35	354.00	7	14.00		213,344.00		6,404,580.00	32,706,794.00	1.90	621,428.47	
12	92.00	6	18.00		223,780.00		6,924,919.00	33,041,112.00	1.98	654,214.00	
		8	24.00		227,082.00		6,399,866.00	33,044,334.00	2.25	743,497.53	

'Assessors' Oath.

We, the Assessors of the city of Manchester, do solemnly swear that in making the invoice for the purpose of assessing the foregoing taxes, we appraise all taxable property at its full value, and as we would appraise the same in payment of a just debt due from a solvent debtor. *So help us God.*

Valuation and Taxes.

The amount of taxes assessed on the polls and on the real and personal estate, within the city of Manchester, N. H., for the year 1902, was as follows:

	Valuation.	Rate.	Tax.
Real estate	\$26,383,283	\$22.50	\$593,623.88
Personal property	5,253,151	22.50	118,195.90
	<hr/>		<hr/>
	\$31,636,434		\$711,819.78
Number of polls, 14,079	1,407,900	22.50	31,677.75
	<hr/>		<hr/>
Totals	\$33,044,334		\$743,497.53

The share distributed to Manchester of the amount of tax assessed, as per returns made by the corporations to state treasurer:

On railroads	\$41,206.87
On savings banks	57,512.95
On insurance companies	3,157.50
On literary fund	2,834.50
	<hr/>
Grand tax total	\$848,209.35

For further information in relation to taxes collected by the state, see State Treasurer's report

TABLE OF TAXES DUE AND UNCOLLECTED.

YEAR.	Due January 1, 1902, assessed in 1902.	Discounts and abatements, 1902.	Collected in 1902.	Due December 31, 1902.
Taxes of 1885.....	\$1,205.71	.....	.....	\$1,205.71
Taxes of 1886.....	1,264.85	.....	.....	1,264.85
Taxes of 1887.....	1,163.94	.....	.....	1,163.94
Taxes of 1888.....	1,580.13	.....	.....	1,580.13
Taxes of 1889.....	1,395.13	.....	.....	1,395.13
Taxes of 1890.....	1,687.08	.....	.....	1,687.08
Taxes of 1891.....	1,966.63	.....	.....	1,966.63
Taxes of 1892.....	2,582.12	.....	.....	2,582.12
Taxes of 1893.....	4,095.13	.....	.....	4,095.13
Taxes of 1894.....	3,514.05	.....	.....	3,514.05
Taxes of 1895.....	5,008.40	.....	\$ 3.48	5,004.92
Taxes of 1896.....	5,001.30	.....	3.72	4,997.58
Taxes of 1897.....	5,311.47	.....	10.40	5,301.07
Taxes of 1898.....	5,658.46	.....	15.60	5,642.86
Taxes of 1899.....	5,828.18	.....	51.22	5,776.96
Taxes of 1900.....	5,393.84	.....	196.23	5,197.61
Taxes of 1901.....	{ 675.99 } { 66,206.53 }	\$ 467.37	60,047.11	6,368.04
Taxes of 1902.....	743,497.53	1,199.90	650,212.73	92,084.90
Total.....	\$863,036.47	\$1,667.27	\$710,540.49	\$150,828.71

TAX VALUATIONS, ETC., FROM 1890 TO 1902 INCLUSIVE.

YEAR.	Valuation.	Taxes.	No. polls.	Poll tax.	Valuation of poll.
1890	\$24,207,740	\$462,869.17	9,723	\$1.91	\$100
1891	24,872,492	443,541.76	10,367	1.78	100
1892	25,932,044	506,465.17	10,673	1.95	100
1893	27,439,742	507,640.68	11,835	1.85	100
1894	28,391,710	505,372.44	12,103	1.78	100
1895	28,861,122	502,183.02	12,244	1.74	100
1896	29,443,668	547,651.50	12,583	1.86	100
1897	30,486,946	634,127.80	12,921	2.08	100
1898	30,988,488	604,280.57	12,808	1.95	100
1899	31,491,784	614,096.93	13,137	1.95	100
1900	32,706,794	621,428.47	13,759	1.90	100
1901	33,041,112	654,214.00	13,976	1.98	100
1902	33,034,334	743,497.53	14,079	2.25	100

For years prior to 1890, see reports of 1890 and 1891.

Statement of Account of George E. Morrill, Tax Collector
for the City of Manchester, N. H., June 1, 1902.

	Balance outstanding June 1, 1901.	Collected.	Balance outstanding June 1, 1902.
Tax list, 1885	\$1,205.71		\$1,205.71
1886	1,264.85		1,264.85
1887	1,163.94		1,163.94
1888	1,580.13		1,580.13
1889	1,395.13		1,395.13
1890	1,687.08		1,687.08
1891	1,966.63		1,966.63
1892	2,582.12		2,582.12
1893	4,095.13		4,095.13
1894	3,514.05		3,514.05
1895	5,008.40	\$3.48	5,004.92
1896	5,001.30	3.72	4,997.58
1897	5,311.47	10.40	5,301.07
1898	5,658.46	15.60	5,642.86
1899	5,828.18	51.22	5,776.96
1900	5,393.84	196.23	5,197.61
Amount collected		\$280.65	
Credit by cash, as per treasurer's receipt No. 97..		280.65	

Interest collected.....	\$1,827.81
Credit by cash, as per treasurer's receipt No. 95..	<u>1,827.81</u>
Cost collected.....	\$1,748.50
Credit by cash, as per treasurer's receipt No. 96..	<u><u>1,748.50</u></u>

1901.	Dr.	
June 1. To warrant resident list.....	\$653,216.10	
warrant non-resident list	1,147.15	
voluntary list.....	526.74	
	<u> </u>	<u>\$654,889.99</u>

1901, 1902.	Cr.	
By cash paid treasurer, per vouchers Nos. 81, 89, 97, 120, 136, 142, 154, 166, 174 in year 1901; and receipts Nos. 31, 49, 94, 98 in year 1902.....	\$647,182.04	
By abatements, vouchers Nos. 158 in 1901, and 93 in 1902.....	1,339.91	
By unpaid taxes, June 1, 1902.....	6,368.04	
	<u> </u>	<u>\$654,889.99</u>

MANCHESTER, N. H., October 1, 1902.

I hereby certify that I have examined the account of George E. Morrill, tax collector of said Manchester, and find the same correct, as above stated.

JAMES E. DODGE,
City Auditor.

Some Laws and Decisions Relating to Exemptions from Taxation.

CONSTITUTION OF NEW HAMPSHIRE, ARTICLE 82, PAGE 38, PUBLIC STATUTES.

ENCOURAGEMENT OF LITERATURE, ETC.

ART. 82. "Knowledge and learning generally diffused through a community being essential to the preservation of a free government, and spreading the opportunities and advantages of education through the various parts of the country being highly conducive to promote this end, it shall be the duty of legislators and magistrates, in all future periods of

this government, to cherish the interests of literature and the sciences, and all seminaries and public schools; to encourage private and public institutions, rewards, and immunities for the promotion of agriculture, arts, sciences, commerce, trades, manufactures, and natural history of the country; to countenance and inculcate the principles of humanity and general benevolence, public and private charity, industry and economy, honesty and punctuality sincerity, sobriety, and all social affections and generous sentiments among the people; *provided, nevertheless*, that no money raised by taxation shall ever be granted or applied for the use of schools or institutions of any religious sect or denomination."

PUBLIC STATUTES, CHAPTER 55.

SECT. 2. "Real estate, whether improved or unimproved, and whether owned by residents or others, is liable to be taxed, except houses of public worship, twenty-five hundred dollars of the value of parsonages owned by religious societies and occupied by their pastors, school-houses, seminaries of learning, real estate of the United States, state, or town used for public purposes, and almshouses on county farms.

SECT. 11. "Towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town.

OPINION OF THE SUPREME COURT.

58 N. H. Rep., page 623. "The exemption in each case is limited to ten years. A perpetual alienation of the whole power of taxation would be the destruction of government; and the dangerous tendency of legislation suspending any part of that power, for any period, is manifest. *P. Bank v. Billings*, 4 Pet. 514, 561. So long as the existing laws remain unrepealed, and the constitutional construction heretofore adopted remains unchanged, contracts hereafter made under these laws and that construction will be valid. If the legislature for any reason wish to prevent the making of any more such contracts, their object can be accomplished by a repeal of the laws authorizing them."

Hospitals, etc., are exempt from taxation in their respective charters as "being of the nature of a public charity," as follows:

Gale Home for Aged and Destitute Women, N. H. Laws of 1889, chapter 199.

Elliot Hospital, N. H. Laws of 1881, chapter 178.

Manchester Woman's Aid and Relief Society, organized in January, 1875, N. H. Laws, 1891, chapter 283.

Orphanage and Home for Old Ladies (Catholic) on Hanover street, N. H. Laws, 1883, chapter 56.

Schedule of Property used for Religious, Charitable and Educational Purposes, and Exempt from Taxation by Law, not including that owned by the city of Manchester.

Convent, Sisters Jesus Mary, French Catholic; East Spruce street, near Beech:		
Building	\$10,000.00	
13,000 square feet of land	2,600.00	
	<hr/>	\$12,600.00
Convent, Sisters of Mercy, Catholic; 415 Union street, corner Laurel:		
Building	\$30,000.00	
12,600 square feet of land	6,390.00	
	<hr/>	\$36,390.00
Mount St. Mary's Academy, Catholic; from convent lot east to Beech street:		
Building	\$25,000.00	
31,500 square feet of land	9,450.00	
	<hr/>	\$34,450.00
Lot south side of Laurel street, corner of Union street, Catholic; McDonald school:		
Building	\$35,000.00	
10,800 square feet of land	5,000.00	
	<hr/>	\$40,000.00
Hospital of the Sacred Heart and Old Ladies' Home, Catholic; Amherst and Hanover streets:		
Building	\$14,000.00	
40,500 square feet of land	30,375.00	
	<hr/>	\$44,375.00
St. Patrick's Orphan Asylums, Catholic; 184 Hanover street:		
Building	\$47,000.00	
40,500 square feet land	40,500.00	
	<hr/>	\$87,500.00
St. Joseph's High School, Catholic; Lowell street, corner of Birch:		
Building	\$12,000.00	
8,000 square feet of land	8,000.00	
	<hr/>	\$20,000.00
Union-street school, Catholic; corner of Union and Laurel streets:		
Building	\$4,000.00	
5,000 square feet of land	2,500.00	
	<hr/>	\$6,500.00

St. Agnes' school, Catholic; corner Cedar and Pine streets:		
Building	\$12,000.00	
20,000 square feet of land	3,200.00	
	<hr/>	\$15,200.00
St. Joseph's school for girls, Catholic; corner Pine and Lowell streets:		
Building	\$10,000.00	
Land included in cathedral lot.		
	<hr/>	\$10,000.00
Convent of Holy Angels, French Catholic; Beauport street, corner Wayne, West Manchester:		
Building	\$15,000.00	
22,500 square feet of land	4,500.00	
	<hr/>	\$19,500.00
St. George's school, French Catholic; corner Pine and Orange streets:		
Building	\$30,000.00	
10,000 square feet of land	5,000.00	
	<hr/>	\$35,000.00
Monastery of the Precious Blood; 555 Union street:		
Building	\$2,500.00	
6,750 square feet of land	2,025.00	
	<hr/>	\$4,525.00
Orphanage school, Beauport, Wayne, and Putnam streets; French Catholic:		
Building	\$25,000.00	
30,000 square feet of land	6,000.00	
	<hr/>	\$31,000.00
St. Augustine's academy, French Catholic; corner Beech and Spruce streets:		
Building	\$8,000 00	
15,000 square feet of land	4,500.00	
	<hr/>	\$12,500.00
St. Marie's parochial school, French Catholic; corner Wayne and Cartier streets:		
Building	\$12,000.00	
25,000 square feet of land	2,000.00	
	<hr/>	\$14,000.00
Residence priest St. Augustine's church, French Catholic; 383 Beech street:		
Building	\$6,000.00	
7,500 square feet of land	1,875.00	
	<hr/>	\$2,500.00
		\$7,875.00

Orphan Children's school, parish of St. Augustine; 251, 253
Lake avenue:

Building	\$12,000.00
10,000 square feet of land	5,000.00

\$17,000.00

Holy Rosary school, 30 Cedar street:

Building	\$8,750.00
2,500 square feet of land	1,250.00

\$10,000.00

Residence priest St. Anne's church, Catholic; 231 Merri-
mack street:

Building	\$5,000.00
8,820 square feet of land	2,646.00

\$2,500.00

\$7,646.00

Residence of Catholic bishop; 145 Lowell street:

Building	\$40,000.00
24,000 square feet of land	12,000.00

\$2,500.00

\$52,000.00

Residence priest St. George's church, French Catholic;
Orange street, corner Pine:

Building	\$2,500.00
10,000 square feet of land	4,000.00

\$2,500.00

\$6,500.00

Residence priest St. Mary's church, French Catholic; 376
Beaumont street, West Manchester:

Building	\$2,500.00
5,000 square feet of land	1,000.00

\$2,500.00

\$3,500.00

St. Anne's church, Catholic; Union street, corner Merri-
mack:

Building	\$30,000.00
10,180 square feet of land	5,090.00

\$35,090.00

St. Augustine's church, French Catholic; Beech street,
Corner East Spruce:

Building	\$28,000.00
13,000 square feet of land	3,250.00

\$31,250.00

St. Joseph's cathedral and chapel, Catholic; Pine street
corner Lowell:

Building	\$70,000.00
40,000 square feet of land	30,375.00

\$100,375.00

St. Marie's church, French Catholic; Beauport street, corner Wayne, West Manchester:		
Building	\$25,000.00	
70,000 square feet of land	14,000.00	
	<hr/>	\$39,000.00
St. Raphael's church and school, German Catholic; Third street, corner Ferry, West Manchester:		
Building	\$35,000.00	
8,000 square feet of land	3,400.00	
	<hr/>	\$38,400.00
St. George's church, French Catholic; Pine street, corner Orange:		
Building	\$75,000.00	
18,690 square feet of land	7,614.00	
	<hr/>	\$82,614.00
St. Patrick's church and school, Catholic; Kelley street, Cartier street, and Coolidge avenue:		
School building	\$20,000.00	
56,281 square feet of land	4,502.00	
	<hr/>	\$24,502.00
St. Antoine de Padoue church, Catholic; 260 Belmont street:		
Building	\$4,000.00	
	<hr/>	\$4,000.00
Residence priest St. Antoine de Padoue's church, Catholic; 258 Belmont street:		
Building	\$5,500.00	
Land	4,000.00	
	<hr/>	\$2,500.00
	9,500.00	
St. Hedwidge church, Polish Catholic; Merrimack, corner Pine street:		
Building	\$3,000.00	
Land	6,000.00	
	<hr/>	\$9,000.00
Residence priest St. Hedwidge church, same lot:		
Building	\$4,000.00	
	<hr/>	\$2,500.00
First Baptist church; Union street, corner Concord:		
Building	\$28,000.00	
11,250 square feet of land	6,750.00	
	<hr/>	\$34,750.00
First Freewill Baptist Church; Merrimack street, corner Chestnut:		
Building	\$12,400.00	
12,600 square feet of land	12,600.00	
	<hr/>	\$25,000.00

Second Baptist church : Merrimack street, near Pine :

Building	\$9,000.00
9,450 square feet of land	3,780.00

\$12,780.00

People's Baptist church : Chestnut street, corner Concord :

Building	\$8,000.00
3,200 square feet of land	2,000.00

\$10,000.00

First Congregational church ; Hanover street, corner Union :

Building	\$30,000.00
43,200 square feet of land	34,560.00

\$64,560.00

Second Congregational church ; Market street, corner Franklin :

Building	\$25,000.00
19,000 square feet of land	19,000.00

\$44,000.00

Third Congregational church : South Main street, corner Milford, West Manchester :

Building	\$8,000.00
23,000 square feet of land	3,000.00

\$11,000.00

First M. E. church : Valley street, corner Jewitt :

Building	\$8,000.00
11,400 square feet of land	1,000.00

\$9,000.00

St. Paul's M. E. church ; Union street, corner Amherst :

Building	\$25,000.00
10,010 square feet of land	6,000.00

\$31,000.00

Trinity M. E. church : School street :

Building	\$2,000.00
12,176 square feet of land	3,000.00

\$5,000.00

St. James M. E. church ; Pennacook street, corner Pine :

Building	\$9,000.00
11,000 square feet of land	2,200.00

\$11,200.00

Grace church, Episcopal ; Lowell street, corner Pine :

Building	\$20,000.00
9,300 square feet of land	6,975.00

\$26,975.00

First Unitarian church : Concord street, corner Beech :

Building	\$24,000.00
13,500 square feet of land	6,000.00

\$30,000.00

First Universalist church; Lowell street, near Elm:

Building	\$17,000.00	
10,000 square feet of land	15,000.00	
		<hr/>
		\$32,000.00

Christian church, Protestant; Hall street, corner Merrimack:

Building	\$9,000.00	
Land	1,000.00	
		<hr/>
		\$10,000.00

First Presbyterian church, German; Second street, corner Bath, West Manchester:

Building	\$3,000.00	
10,000 square feet of land	2,500.00	
		<hr/>
		\$5,500.00

Swedish Lutheran church, Protestant; Sagamore, corner Pine:

Building	\$7,500.00	
10,950 square feet of land	2,000.00	
		<hr/>
		\$9,500.00

Swedish Evangelical Mission; Pine street, corner Orange:

Building	\$6,500.00	
Land	4,100.00	
		<hr/>
		\$10,600.00

Swedish Baptist church; Arlington street, near Maple:

Building	\$5,000.00	
4,432 square feet of land	1,100.00	
		<hr/>
		\$6,100.00

Second Advent church: Amherst street, between Pine and Union:

Building	\$5,100.00	
4,500 square feet of land	3,375.00	
		<hr/>
		\$8,475.00

City Mission chapel, Protestant; Merrimack street, corner Beech:

Building	\$7,000.00	
12,600 square feet of land	6,000.00	
		<hr/>
		\$13,000.00

Westminster Presbyterian church; Brook street, corner Hazel:

Building	\$15,000.00	
10,000 square feet of land	2,500.00	
		<hr/>
		\$17,500.00

South Manchester Union chapel, Protestant; Elm street, south:

Building	\$2,500.00	
10,747 square feet of land	1,000.00	
		<hr/>
		\$3,500.00

First Church of Christ, Scientist; Harrison street, corner Albert:		
Building	\$14,000.00	
Land	5,000.00	
	<hr/>	\$19,000.00
Episcopal Mission church; North Main street, corner School, West Manchester:		
Building	\$3,500.00	
19,412 square feet of land	4,000.00	
	<hr/>	\$7,500.00
Residence pastor St. Paul's M. E. church; Union street, near Amherst:		
Building	\$3,000.00	
	<hr/>	\$2,500.00
Residence pastor First Congregational church; 590 Beech street, near Bridge:		
Building	\$5,000.00	
8,100 square feet of land	2,400.00	
	<hr/>	\$2,500.00
	\$7,400.00	
Residence pastor Grace Episcopal church; corner of Harrison and Union streets:		
Building	\$6,000.00	
15,000 square feet of land	3,750.00	
	<hr/>	\$2,500.00
	\$9,750.00	
German School Society; Third, Bath and Ferry streets:		
Building	\$4,500.00	
10,187 square feet of land	2,500.00	
	<hr/>	\$7,000.00
Elliot Hospital, Protestant; East Manchester:		
Building	\$23,000.00	
Land	7,000.00	
	<hr/>	\$30,000.00
Elliot Hospital lot; Hanover street, corner Chestnut:		
Building	\$3,000.00	
Land	13,000.00	
	<hr/>	\$16,000.00
Elliot Hospital:		
Land and buildings, Main street	\$4,000.00	
Land and buildings, Quincey street	2,500.00	
	<hr/>	\$6,500.00
Women's Aid Home; Pearl street, corner Beech:		
Building	\$15,000.00	
57,530 square feet of land	10,000.00	
	<hr/>	\$25,000.00

Women's Aid Home; Bridge street, corner Chestnut:

Buildings	\$9,000.00
6,037.5 square feet of land	3,000.00

 \$12,000.00

Manchester Children's Home; Webster street:

Building	\$20,000.00
55,000 square feet of land	2,500.00

 \$22,500.00

Residence pastor Swedish Lutheran church; Sagamore street, corner Pine:

Building	\$3,000.00
10,200 square feet of land	1,020.00

 \$2,500.00

 \$4,020.00

Gale Home:

One half Martin's block, Elm street	\$25,000.00
Land and building, Pearl street, corner Ash	25,000.00

 \$50,000.00

EXEMPT FROM TAXATION.

Church property, Catholic	\$364,231.00
Convent property, Catholic	72,925.00
Parochial residences, Catholic	17,500.00
Parochial Schools, Catholic	245,650.00
Hospitals and other charitable institutions . . .	131,875.00

 832,181.00

Church property, Protestant	457,940.00
Parochial residences, Protestant	10,000.00
Private school property, Protestant	7,000.00
Hospitals and other charitable institutions . . .	162,000.00

 \$636,940.00

TAXABLE.

Land and Buildings, Catholic	73,521.00
Land and Buildings, Protestant	14,170.00

 \$87,691.00

 Total exempt and taxable \$1,556,812.00

SCHEDULE OF PROPERTY USED FOR MANUFACTURING PURPOSES EXEMPT BY LAW FROM TAXATION.

OWNER.	Occupant.	Location.	Goods man- ufactured.	Exemption commenced.	Exemption ceases.	Valuation.
F. M. Hoyt & Co	F. M. Hoyt & Co.*	11-2 acres land and building	Shoes	Oct. 6, 1891	April 1, 1902	\$20,700.00
Elliott Mfg. Co	Elliott Mfg. Co.†	{ 58,466 ft. land and factory, Valley and Wilson } { Stock and machinery } { 1 acre land and building south of }	Silk	April 5, 1892	" 1, 1903	32,000.00
Kennedy Land Co	Josselyn & Seavey	{ Stock and machinery } { Land and buildings, 20,000 feet, Kel-	Furniture	Dec. 12, 1892	" 1, 1903	11,000.00
Rimmon Mfg. Co	Jennings & Stevens	ley street } { Stock and machinery }	Shoes	" 12, 1892	" 1, 1903	8,000.00
Dana & Provost	Dana & Provost.*	Union street, at junction with C. & P. R. R.	Shoes	April 1, 1893	" 1, 1903	6,000.00
Eaton Heights Shoe Co.		Land and building	Wood	" 1, 1893	" 1, 1903	25,000.00
So. Manchester Building Ass'n		Land and buildings, 75,000 ft., Lincoln and Silver street	Shoes	June 5, 1894	June 5, 1904	20,000.00
Eureka Shoe Co		Land, buildings, machinery and ma- terials	"	Jan. 1, 1895	Jan. 1, 1905	30,000.00
Redman & Eaton Shoe Co		"	"	" 1, 1895	" 1, 1905	50,000.00
Inno Wrapper Co	Inno Wrapper Co	East Manchester	"	Dec. 4, 1894	Dec. 4, 1904	35,000.00
"	"	"	Cotton	" 1, 1897	" 1, 1907	10,000.00
Manchester Mills	Manchester Mills	South side of Granite street	"	April 1, 1898	April 1, 1908	20,000.00
East Side Co	McElwain Shoe Co.†	Valley street near Wilson	Shoes	" 1, 1902	" 1, 1912	1,000,000.00
				" 1, 1902	" 1, 1912	50,000.00
						\$1,317,700.00

* Stock and machinery taxable.

† Stock and machinery—value not determined.

REPORT OF THE CITY AUDITOR.

STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.

Date of issue.	Description.	Number.	Denomina- tion.	Amount.	Total.	Date when the principal is pay- able.	INTEREST.		
							Rate per ct.	When payable.	Where payable.
Dec. 16, 1895	Water bonds.	50	\$1,000	\$50,000	\$50,000	December 16, 1915	4	Semi-annual	At Suffolk Bank, Boston, Mass.
Oct. 1, 1894	" "	50	1,000	50,000	50,000	October 1, 1914	4	"	" "
Nov. 1, 1893	" "	100	1,000	100,000	100,000	November 1, 1913	4 1-2	"	" "
Aug. 1, 1893	" "	100	1,000	100,000	100,000	August 1, 1913	5	"	" "
Jan. 1, 1892	" "	100	1,000	100,000	100,000	January 1, 1912	4	"	" "
Jan. 1, 1897 } Refunded. }	" "	100	1,000	100,000	100,000	1, 1917	4	"	" "
July 1, 1895 } Refunded. }	" "	100	1,000	100,000	100,000	July 1, 1910	4	"	" "
July 1, 1890 } Refunded. }	" "	100	1,000	100,000	100,000	1, 1915	4	"	" "
Jan. 1, 1887 } Refunded. }	" "	100	1,000	100,000	100,000	January 1, 1907	4	"	" "
July 1, 1881 } 1, 1881 1, 1881	Bridge bonds. " " " "	15 39 39	100 500 1,000	1,500 19,500 39,000	..... ..... 60,000	July 1, 1911 1, 1911 1, 1911	4 4 4	" " "	At Treas'r's Office, Manchester, N. H. " " "
April 1, 1885 } 1, 1885 1, 1885	City bonds. " " " "	50 50 50	1,000 1,000 1,000	\$50,000 50,000 50,000	50,000 50,000 50,000	April 1, 1905 1, 1907 1, 1909	4 4 4	" " "	At Suffolk Bank, Boston, Mass. " " "

STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.—Continued.

Date of Issue.	Description.	Number.	Denomina- tion.	Amount	Total.	Date when the principal is payable.	INTEREST.		
							Rate per cent.	When payable.	Where payable.
April 1, 1885	City Bonds.	5	\$1,000	\$5,000	\$5,000	April 1, 1911	4	Semi-annual	At Suffolk Bank, Boston, Mass.
July 1, 1893	Improvement bonds.	100	1,000	100,000	100,000	January 1, 1913	4	"	"
June 1, 1894	"	100	1,000	100,000	100,000	April 1, 1914	4	"	"
April 1, 1895	"	100	1,000	100,000	100,000	1, 1915	4	"	"
1, 1896	"	100	1,000	100,000	100,000	1, 1916	4	"	"
July 1, 1895	School bonds.	60	1,000	50,000	50,000	(\$10,000 July 1, 1903, and \$10,000 annu- ally thereafter.)	4	"	"
1, 1895	"	80	1,000	80,000	80,000				
July 1, 1896	"	40	1,000	40,000	40,000	July 1, 1916	4	"	"
April 1, 1899	City Bonds.	100	1,000	100,000	100,000	April 1, 1919	3 1/2	"	"
July 1, 1902	Municipal bonds.	80	1,000	80,000	80,000	July 1, 1922	3 1/2	"	"
					\$1,765,000				

REPORT OF THE CITY AUDITOR.

REMARKS.—The city guarantees the perpetual care of lots in the cemeteries of the city to parties who pay \$100 and upward. There are \$50,000 in cemetery bonds, so called, not negotiable, in the hands of the city treasurer, which are not included in the \$1,765,000.

Total amount of bonded debt, including cemetery bonds	\$1,815,000.00
Net indebtedness for water purposes	800,000.00

Net debt after deducting water debt	1,015,000.00
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As shown in the assessors' books for the year 1902:

The assessed value of personal property, including poll tax	\$6,661,051.00
The assessed value of real estate	26,383,283.00

Total value for taxation	\$33,044,334.00
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Tax rate, 2.25 per cent on a hundred.

Per cent of net indebtedness (excluding debt for water purposes) to assessed valuation	3,072
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Per cent of net indebtedness (including debt for water purposes) to assessed valuation	5,492
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Population, census of 1900	56,987
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No issue of bonds has ever been contested.

The interest on the debt has always been promptly paid at maturity.

None of the bonds are stated specifically as being payable in gold.

None of the bonds can be called for redemption.

A sinking fund was established in 1893.

Total amount of sinking fund December 31, 1902, \$310,936.74

The power of the city to borrow money in relation to the water-works is limited to the sum of \$600,000 by section 6, chapter 70. New Hampshire Laws of 1871, entitled "An act to enable the city of Manchester to establish water-works," except as further extended an amount of \$300,000 by laws of 1891, chapter 26: and \$200,000 by laws of 1895, chapter 172.

SUMMARY OF CITY DEBT.

Amount of bonded debt January 1, 1902	\$1,956,319.00
Accrued interest on bonded debt	25,258.00
Bonds issued during year	80,000.00

	\$2,061,577.00
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Amount of bonded and temporary debt paid in 1902	110,000.00
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Total indebtedness December 31, 1902	\$1,951,577.00
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STATEMENT OF BONDED DEBT.

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AVAILABLE ASSETS.

Net cash on hand December 31, 1902	\$144,472.75
Taxes uncollected, list of 1902	92,084.90
Stock of Suncook Valley Railroad, estimated value	14,500.00
Sinking fund December 31, 1902	310,936.74
	<hr/>
	\$561,994.39

BONDED DEBT.

Total net indebtedness January 1, 1902	\$1,385,968.00
Total net indebtedness January 1, 1903	1,389,582.00
	<hr/>
Increase	\$3,614.00

STATEMENT OF THE ANNUAL INTEREST CHARGE ON THE
BONDED DEBT.

Year.	Six per cent water bonds.	Four per cent water bonds.	Four and a half and five per cent water bonds.	Five per cent cemetery bonds.	Six per cent to fund debt.	Four per cent to build McGregor bridge.	Four per cent to fund debt.	Four per cent, improvement bonds and 3-1-2 per cent city bonds.	Four per cent school bonds and Granite bridge.	Total of annual interest.
1890...	\$27,000	\$6,000		\$623.75	\$7,000	\$2,400	\$6,200			\$49,423.75
1891...	24,000	8,000		813.92	7,200	2,400	6,200			48,613.92
1892...	18,000	12,000		1,000.00	7,200	2,400	6,200			46,800.00
1893...	18,000	12,000		1,041.66	7,200	2,400	6,200			46,841.66
1894...	18,000	14,000	\$9,500	1,550.00		2,400	6,200	\$8,000		59,650.00
1895...	18,000	14,600	9,500	1,812.50		2,400	6,200	12,000	24,800	68,712.50
1896...	12,000	20,000	9,500	2,112.50		2,400	6,200	16,000	14,400	82,612.50
1897...	9,000	22,000	9,500	2,500.00		2,400	6,200	16,000	13,000	80,600.00
1898...	6,000	24,000	9,500	2,500.00		2,400	6,200	16,000	13,000	79,000.00
1899...	6,000	24,000	9,500	2,500.00		2,400	6,200	19,500	11,400	81,500.00
1900...	6,000	24,000	9,500	2,500.00		2,400	6,200	19,500	10,520	80,620.00
1901...	6,000	24,000	9,500	2,500.00		2,400	6,200	19,500	8,800	78,900.00
1902...	3,000	24,000	9,500	2,500.00		2,400	6,200	20,850	8,200	76,650.00

PUBLIC BUILDINGS OCCUPIED IN PART BY PRIVATE PARTIES,
BATTERY BUILDING.

Annual rent.	Location.	Occupants.	Rooms.	Command.	Remarks.
Free	Manchester street.	First Light Battery	2 rooms.	First N. H. L. Battery.	Battery occupies first and second floors and basement. Guards occupy third floor. Ward meetings are held in battery room on second floor.
"	" "	Emmet Guards.....	1 room...	Emmet Guards.....	

WARD FIVE WARDROOM.

Annual rent.	Location.	Occupants.	Rooms.	Command.	Remarks.
Free.....	Lake Avenue.....	Sheridan Guards.....	1 room....	Sheridan Guards.....	Ward meetings held in building.

BLODGET SCHOOLHOUSE.

Annual rent.	Location.	Occupants.	Rooms.	Remarks.
Free.....	Blodget street.....	Thornton Naval Veterans.	1 room.....	Ward meeting held in building.

Valuation of Real Estate Owned by the City.

High school, Beech street, corner Lowell:		
Building	\$170,000.00	
59,400 square feet of land	17,820.00	
	<hr/>	\$187,820.00
Farnklin-street school, Franklin street, corner Pleasant:		
Building	\$16,000.00	
19,200 square feet of land	19,200.00	
	<hr/>	\$35,200.00
Spring-street school, Spring street:		
Building	\$13,000.00	
13,600 square feet of land	13,600.00	
	<hr/>	\$26,600.00
Lincoln-street school, Lincoln street, corner Merrimack:		
Building	\$45,000.00	
40,000 square feet of land	8,000.00	
	<hr/>	\$53,000.00
Ash-street school, Ash street, corner Bridge:		
Building	\$50,000.00	
57,537 square feet of land	17,262.00	
	<hr/>	\$67,262.00
Main-street school, North Main street, West Manchester:		
Building	\$6,000.00	
40,293.4 square feet of land	10,073.00	
	<hr/>	16,073.00
Webster-street school, Webster street:		
Building	\$39,000.00	
55,714 3-4 square feet of land	13,928.00	
	<hr/>	\$52,928.00
Blodget-street school, Blodget street:		
Building	1,500.00	
9,000 square feet of land	3,600.00	
	<hr/>	\$5,100.00
Lowell-street school, Lowell street, corner Chestnut:		
Building	\$1,000.00	
9,000 square feet of land	9,000.00	
	<hr/>	\$10,000.00
Merrimack-street school, Merrimack street, corner Union:		
Building	\$15,000.00	
12,600 square feet of land	6,300.00	
	<hr/>	\$21,300.00
Parker school, South Main street, West Manchester:		
Building	\$20,000.00	
13,650 square feet of land	2,047.00	
	<hr/>	\$22,047.00

Bakersville school, Elm street, south:		
Building	\$10,000.00	
24,184 square feet of land	3,628.00	
		<hr/> \$13,628.00
Stark District school, River road, north:		
Building	\$1,000.00	
43,560 square feet of land	100.00	
		<hr/> \$1,100.00
Amoskeag school, Front street, Amoskeag:		
Building	\$8,000.00	
6,000 square feet of land	1,000.00	
		<hr/> \$9,000.00
Rimmon school, corner Amory and Dubuque streets:		
Building	\$17,400.00	
16,600 square feet of land	2,490.00	
		<hr/> \$19,890.00
Goffe's Falls school, Goffe's Falls:		
Building	\$4,000.00	
47,916 square feet of land	250.00	
		<hr/> \$4,250.00
Harvey District school, Nutt road:		
Building	\$2,000.00	
21,780 square feet of land	100.00	
		<hr/> \$2,100.00
Webster Mills school, Webster Mills:		
Building	\$400.00	
5,445 square feet of land	100.00	
		<hr/> \$500.00
Old Hallsville school, East Manchester:		
Building	\$500.00	
30,075 square feet of land	3,008.00	
		<hr/> \$3,508.00
Youngsville school, Youngsville:		
Building	\$500.00	
51,228 square feet of land	100.00	
		<hr/> \$600.00
Mosquito Pond school, Mosquito Pond:		
Building	400.00	
10,890 square feet of land	100.00	
		<hr/> \$500.00
Pearl-street school:		
Building	\$18,700.00	
Land	3,200.00	
		<hr/> \$21,900.00

Varney school, Bowman street, corner Mast, West Manchester:

Building	\$43,750.00
Land	6,700.00

\$50,450.00

New Hallsville school, Jewett street, corner Young, East Manchester:

Building	\$29,800.00
44,000 square feet of land	3,300.00

\$33,100.00

Straw School, Chestnut street, corner Harrison:

Building	\$30,000.00
32,400 square feet of land	16,200.00

\$46,200.00

New Wilson school, Wilson, Cedar, and Auburn streets:

Building	\$30,000.00
40,000 square feet of land	5,000.00

\$35,000.00

South Manchester school, Titus avenue:

Building	\$12,000.00
48,400 square feet of land	1,000.00

\$13,000.00

\$752,056.00

ENGINE-HOUSES.

Engine-house and stable, Central Station, Vine street:

Building	\$31,800.00
21,718.86 square feet of land	25,438.00

\$57,238.00

North Main-street engine-house, North Main street, West Manchester:

Building	\$18,000.00
11,819 square feet of land	2,955.00

\$20,955.00

Webster-street engine-house, Webster street, corner Chestnut:

Building	\$12,000.00
8,510 square feet of land	2,180.00

\$14,180.00

Merrimack engine-house, Lake avenue:

Building	\$15,000.00
10,000 square feet of land	3,000.00

\$18,000.00

Hosehouse and cottage, Maple street, corner East High :

Building	\$3,000.00	
18,330 square feet of land	3,666.00	
	<hr/>	\$6,666.00

Engine-house and wardroom, ward 9, Rimmon and Amory streets, West Manchester :

Building	\$22,755.00	
6,000 square feet of land	870.00	
	<hr/>	\$23,625.00

South Manchester Hosehouse :

Building	\$4,200.00	
4,278 square feet of land	684.00	
	<hr/>	\$4,884.48
		<hr/>
		\$145,548.48

OTHER PUBLIC BUILDINGS AND LOTS.

City Library, Dean avenue, corner Franklin street :

Building	\$35,000.00	
15,000 square feet of land	30,000.00	
	<hr/>	\$65,000.00

City Hall, Elm street, corner Market :

Building	\$20,000.00	
100,000 square feet of land	150,000.00	
	<hr/>	\$170,000.00

City farm, Mammoth road :

Building	\$5,000.00	
46.66 acres, west Mammoth road	70,000.00	
81.55 acres, east Mammoth road	65,240.00	
	<hr/>	\$140,240.00

Court house, Franklin street, corner West Merrimack :

Building	\$20,000.00	
19,000 square feet of land	57,000.00	
	<hr/>	\$77,000.00

Battery building, Manchester street :

Building	\$13,000.00	
3,400 square feet of land	5,100.00	
	<hr/>	\$18,100.00

Police station, Manchester street, corner Chestnut :

Building	\$40,000.00	
7,500 square feet of land	15,000.00	
	<hr/>	\$55,000.00

REAL AND PERSONAL ESTATE OWNED BY THE CITY. 163

Slayton Lot, Manchester street:		
Police patrol stable	\$4,000.00	
Building	300.00	
2,908 square feet of land	4,700.00	
	<hr/>	\$9,000.00
City stable and other buildings, Franklin street :		
Building	\$15,950.00	
44,656 square feet of land	89,312.00	
	<hr/>	\$105,262.00
Police station, Clinton street, West Manchester :		
Building	\$3,500.00	
3,790 square feet of land	1,000.00	
	<hr/>	\$4,500.00
Ward 5 wardroom, Lake avenue :		
Building	\$4,500.00	
Land	1,000 00	
	<hr/>	\$5,000.00
City stable, district No. 10		\$1,200.00
City scales, Franklin street :		
Building		\$300.00
Gravel lots, Goffstown :		
2 acres		\$400.00
Gravel lot, Youngsville :		
1 acre		\$500.00
Gravel lot, district No. 10, bought of Brooks & Brock (city has right to remove gravel until August 25, 1903):		
1 1-3 acres		\$500.00
	<hr/>	\$652,502.00

Personal Property owned by the City.

Property in care city engineer	\$1,149.00
in care chief engineer fire department	115,874.50
in care street and park commission	28,787.67
in care superintendent of schools	37,049.00
in care of city messenger	3,000.00
in care city marshal and janitor	7,250.00
in care superintendent of city farm	12,544.87
in care trustees city library	30,000.00

in care superintendent of Pine Grove cemetery . . .	\$248.35
in care superintendent of Valley cemetery . . .	106.00
Stock in Suncook Valley Railroad, in care of city treasurer . . .	50,000.00
Personal property in care city weigher	1,000.00
	<hr/>
	\$287,009.39
Uncollected taxes in 1902	\$92,084.90
Net cash in treasury, December 31, 1902	144,472.75
	<hr/>
	\$236,557.65

Other Real and Personal Estate owned by the City.

Soldiers' monument	\$25,000.00
Permanent inclosure of commons	10,200.00
Amoskeag bridge over Merrimack river	25,000.00
Fountains and water-troughs on streets and commons . . .	3,600.00
City tomb	10,000.00
McGregor bridge	90,000.00
Granite bridge	130,000.00
South Main-street bridge, over Piscataquog river	28,450.00
Second-street bridge, over Piscataquog river	52,036.00
Print-Works bridge, on Granite, over lower canal	5,000.00
Two bridges in highway district No. 9	2,000.00
One bridge at Goffe's Falls	3,500.00
Expended on construction of sewers	737,594.00
	<hr/>
	\$1,122,380.00

PARKS AND CEMETERIES.

Valley cemetery, 19.7 acres	\$200,000.00
Pine Grove cemetery, about 96 acres	46,700.00
Amoskeag cemetery, 1.23 acres	4,340.00
Stark park, 28 acres	9,000.00
Derryfield park, 76 acres	25,000.00
Concord common, 4.48 acres	200,000.00
Tremont common, 2.25 acres	40,000.00
Hanover common, 3 acres	100,000.00
Park common, 3.49 acres	60,000.00
Merrimack common, 5.89 acres	200,000.00
Wagner's park, 9.85 acres	12,000.00
Land on Piscataquog river	3,500.00
	<hr/>
	\$900,540.00

WATER-WORKS.

Real estate and personal property of water-works, at cost price	\$1,570,334.07
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RECAPITULATION.

Real estate owned by the city, schoolhouses	\$752,056.00
Real estate owned by the city	652,502.00
Real estate owned by city, engine-houses	145,548.48
Water-works at cost price	1,570,334.07
Personal property owned by the city	287,009.39
Uncollected taxes and cash	236,557.65
Other real and personal property	1,122,380.00
Parks and cemeteries	900,540.00
	<hr/>
	\$5,666,927.59

PROPERTY ACCOUNT.

Inventory of assets, December 31, 1902	\$5,666,927.59
Inventory of assets, December 31, 1901	5,561,978.11
	<hr/>
Gain in valuation	\$104,949.48

Auditor's Office.

City hall building. Open from 8 to 12 A. M., 1.30 to 5 P. M.; 7 to 9 P. M., on Thursday.

In every bill presented to the city auditor for his approval, the following points will be considered and passed upon.

1. Is the subject matter of the bill under examination within the scope of the powers conferred by the legislature on the city government?
2. Is the bill certified by the party legally authorized to make the contract, or cause the expenditure to be made?
3. Has any appropriation been made to meet the expenditure, and is there a balance unexpended sufficient to pay this bill?
4. Are the number of articles in the bill, or the measurements, either of dimensions, quantities, or weights, correctly and fully stated, and is the proof of the delivery to the city of the whole amount charged sufficient?

5. Is the price charged a fair market price, or is it so largely in excess as to require the attention of the city councils to be called to the same?

6. Is the bill written in a fair legible hand, correctly cast, and on paper of sufficient length and width to admit of its proper backing and filing?

7. If the bill is in part payment of a contract, the date and the total amount of the contract, the amount already paid, the amount of the work not yet completed, and the per cent retained, if any, should be stated in the bill.

8. Any other inquiries in matters of law and fact which affect the question of indebtedness before the auditor.

9. Approval, rejection, or suspension for further information or correction as the circumstances of each case may require.

COURT DECISIONS, LEGAL POINTS AND RULES, RELATING TO THE APPROVAL
OR DISAPPROVAL OF CLAIMS AGAINST THE CITY.

No bill or account shall be paid by the city treasurer until the auditor has approved it as correct.

Public trusts or powers devolved by law or charter on the city councils cannot be delegated to others. Dillon's Municipal Corporations, section 96, volume 1.

The executive powers of the city, except where vested in the mayor, shall be exercised by the mayor and aldermen. General Laws, chapter 46, section 14.

The mayor and aldermen have all the powers and authority of selectmen of towns unless it is otherwise provided by law, General Laws, chapter 46, section 14.

Joint standing committees have advisory powers only; they cannot legally be endowed with executive or legislative powers by ordinance or resolution of the city councils, as no by-laws or ordinance shall be repugnant to the constitution or laws of the state.

No member of either branch of the city councils can enter into any verbal or written contract to furnish supplies to or do any work for the city. Any firm of which a member is also a member of the city councils is included in this prohibition.

No city official, or department, or board of officials having legal power to expend money for the benefit of the city can purchase of or contract with themselves, with any one of the board, or with any firm with which one of said officials is a member. Dillon's Municipal Corporations, volume 1, page 436, section 444.

Every bill against the city shall specify the particular appropriation to which the same should be charged, and the moneys paid will be charged to such appropriations only.

He who is intrusted with the business of others cannot be allowed to make such business a source of profit to himself.

All orders passed by the city councils authorizing a ministerial act to be performed by its agent or agents must be strictly construed, and the act to be done must be specifically stated.

The board of engineers have the authority of firewards. (General Laws, chapter 106, section 11.) They have no power conferred upon them by law or ordinance to purchase new apparatus of any kind.

The joint standing committee on fire department have advisory powers only.

The laws and ordinances require the city auditor to withhold his signature from all bills against any appropriation where the amount of the appropriation is expended, until the city council shall have provided the means of paying the same. Section 4, chapter 3 of the City Ordinances, and section 4, ordinances relating to the duties of the city auditor, approved January 7, 1890.

The power of towns to raise and appropriate money is derived solely from statutory provisions, which restrict the power to certain specified objects and other necessary charges.

Votes to raise or pay money for purposes other than those prescribed by statute are void, and towns cannot be compelled, and generally will not be permitted, to carry such votes into effect.

It is not left to the unrestricted and irresponsible discretion of towns to vote gifts or to select donees; their charity is a duty defined, commanded, enforced, and regulated, and the objects of it are designated by law.

A majority cannot dispose of the property of a minority in an unlimited manner. *Gove v. Epping*, 41 N. H. 539.

The following parties are authorized by law or ordinance to make expenditures within the scope of their powers, for their respective department: For fire department and fire alarm telegraph, the chief engineers, to be submitted monthly to the approval of the board of engineers; for police department, mayor and police commission; for police court, police judge; for water-works department, superintendent, subject to the rules of the board of commissioners and ordinances relating thereto; for city farm, superintendent; for overseers of the poor, each overseer, subject to the rules of the board of overseers, and their monthly review and approval; for schools, superintendent, or such person as the board of school committee may designate, bills to be approved by the board monthly; for streets, sewers, and other work under these departments, street and park commissioners; for city clerk's office, treasurer's office, tax collector's office, assessors' office, auditor's office, incidental expenditures, city physician, city messenger, city solicitor, city engineer, mayor; for cemeteries, superintendents, subject to board of trustees (to consist of citizens not members of the city councils); for health department, board of health,

subject to approval of mayor; city library, board of trustees or person designated by them. It may be stated as a general rule, that all subordinate officials are under the supervision and control of the mayor, subject to such limitations and restrictions as the board of aldermen, acting as a board, may require.

GAS LIGHTS, OIL LAMPS, AND ELECTRIC
LIGHTS.

GAS LIGHTS, OIL LAMPS, AND ELECTRIC LIGHTS.

Gas Lights in Use.

- 1 corner State and Grove.
- 2 Pleasant, between Franklin and Canal
- 1 Franklin and Auburn.
- 1 Elm.
- 1 Elm, near Hutchinson's Foundry.
- 1 Elm.
- 1 Mechanic.
- 1 Hollis, corner Kidder court.
- 1 Bridge and Arkwright.
- 1 Bridge and Elm.
- 1 Orange and Clarke avenue.
- 1 Orange and Chestnut.
- 1 Chestnut and Blodget.
- 1 Blodget, near Elm.
- 1 West Salmon.
- 1 West Appleton.
- 1 Monroe.
- 1 Chestnut and Clarke.
- 1 Chestnut, near Carpenter.
- 1 Chestnut, near Appleton.
- 1 Beech and Orange.
- 1 Maple and Orange.
- 1 Maple, between Bridge and Lowell.
- 1 corner Walnut and Pearl.
- 1 Walnut, between Bridge and Lowell.
- 1 Ash, between Bridge and Lowell.
- 1 Maple and Pearl.
- 1 Arlington, near Swedish church.
- 1 Maple and East High.
- 1 Lowell, above Maple.
- 1 Dutton and Amherst.
- 1 Hanover, between Beech and Maple.
- 1 Hanover, near Lincoln.
- 1 Belmont and Amherst.
- 1 Belmont and Concord.
- 1 Belmont and East High.

- 1 Beacon and Lowell.
- 1 Beacon and Concord.
- 1 Beacon and Amherst.
- 1 Belmont and Manchester.
- 1 Belmont and Central.
- 1 Massabesic and Taylor.
- 1 Ainsworth avenue and Hayward.
- 2 Jewett, between Young and Hayward.
- 2 Union, near Auburn.
- 1 Willow, near jail.
- 2 Brown avenue.
- 2 Hancock.
- 1 Turner, near German hall.
- 1 Milford and Bowman.
- 1 Milford and Williams.
- 1 A and B.
- 1 George.
- 1 Mast.
- 1 Parker.
- 1 Granite and Dover.
- 1 Granite and Quincy.
- 1 Quincy and Douglas.
- 1 Douglas and West.
- 1 Douglas.
- 1 Douglas and Turner.
- 1 Belmont and Hayward.
- 1 Main.
- 1 Prout avenue.
- 1 Carroll.
- 1 Waldo.
- 1 Chestnut.
- 1 Walnut and Prospect.
- 1 Boynton and C.

Total, 74 gas lights.

Naphtha Lights in Use.

- 1 Candia road, corner Orchard avenue.
- 1 Mammoth road, corner Cilley road.
- 1 Mammoth road, corner Island Road.
- 1 Mammoth road, corner Island Pond.
- 1 Young road, near Taylor.
- 1 Taylor, between Young and Somerville.
- 1 Wilson, corner Clay.
- 1 Valley, east of Taylor.
- 1 Taylor, between Valley and Railroad.

- 1 Grove, near Railroad.
- 1 James Hall road, corner Hanover.
- 1 Hanover, near Page.
- 1 Hanover, east of Page.
- 1 Hanover, corner Procter road.
- 1 Hanover, corner Candia road.
- 1 Hanover, near Sherburne.
- 1 Hanover, near Lake Shore road.
- 1 Hanover, corner Lake Shore road.
- 1 Hanover, near Lake pavilion.
- 1 Lake Shore Road, south of railroad track.
- 1 Lake Shore road, opposite Proctor road.
- 1 Lake Shore road, on road to pumping station.
- 2 Lake Shore road.
- 1 Candia road, at railroad crossing, Proctor road.
- 6 Candia road.
- 1 Candia road, corner Page.
- 1 Candia road, between Page and Cody.
- 1 Candia road, corner Cody.
- 1 Nutt road.
- 1 Benton and Jones.
- 4 Calef road.
- 17 Goffe's Falls.
- 1 Nelson and Hall.
- 1 James Hall road.
- 1 Lincoln and Valley.
- 1 Maple and Valley.
- 1 Haywood and Lincoln.
- 1 Hanover, near Clough.
- Total, 63 lights.

Electric Lights in Use.

No.		arm.
1.	A, near B,	
2.	A and South Main,	"
3.	Adams and Cartier,	"
4.	Amherst and Elm,	"
5.	Amherst and Vine,	"
6.	Amherst and Chestnut,	"
7.	Amherst and Pine,	"
8.	Amherst and Union,	"
9.	Amherst and Beech,	"
10.	Amherst and Ash,	"
11.	Amherst and Maple,	"

No. 12.	Amherst and Lincoln,	arm.
13.	Amherst and Ashland,	"
14.	Amherst and Hall,	"
15.	Amory and Main,	pole.
16.	Amory and Beauport,	"
17.	Amory and Rimmon,	"
18.	Amory and Amory street extension,	arm.
19.	Amory, near Montgomery,	"
20.	Amory and Alsace,	"
21.	Amory and Essex,	"
22.	Amory and Morgan,	"
23.	Amoskeag bridge, west,	"
24.	Amoskeag bridge, east,	"
25.	Amoskeag and Front,	"
26.	Appleton and Elm,	"
27.	Appleton and North Adams,	pole.
28.	Appleton and Union,	arm.
29.	Arlington and Russell	"
30.	Arlington and Warren,	"
31.	Arlington and Ashland	"
32.	Auburn and Elm,	"
33.	Auburn and Chestnut,	"
34.	Auburn and Pine,	"
35.	Auburn and Union,	pole.
36.	Auburn and Beech,	"
37.	Auburn and Maple,	"
38.	Auburn and Wilson,	arm.
39.	Auger avenue and Nutt road	"
40.	Baker and Brown avenue	"
41.	Baker and Elm,	"
42.	Bath and Second,	pole.
43.	Beech and Portsmouth Railroad,	arm.
44.	Beech and Lawrence Railroad,	"
45.	Bell and Wentworth,	"
46.	Blaine and Main,	"
47.	Blaine and Second,	"
48.	Blaine and Third,	"
49.	Blodget and Elm back street,	"
50.	Blodget and Pine,	"
51.	Blodget and Union.	"
52.	Blodget and Walnut,	"
53.	Blodget and Ash,	"
54.	Bow and Bartlett,	pole.
55.	Boynton,	arm.
56.	Bowman place and Tilton,	"
57.	Bowman, near Milford,	"
58.	Bremer and Dubuque,	"

No. 59.	Bridge and McGregor,	arm.
60.	Bridge and Canal,	"
61.	Bridge and Elm,	"
62.	Bridge and Chestnut,	"
63.	Bridge and Pine,	"
64.	Bridge and Union	"
65.	Bridge and Walnut,	"
66.	Bridge and Beech,	"
67.	Bridge and Ash,	"
68.	Bridge and Maple,	"
69.	Bridge and Nashua,	"
70.	Bridge and Linden.	"
71.	Bridge and Hall,	"
72.	Bridge and Belmont,	"
73.	Bridge and Highlands,	"
74.	Brown avenue and Elm,	"
75.	Brown avenue, near Tannery,	"
76.	Brook and Elm,	"
77.	Brook and Chestnut,	"
78.	Brook and Pine,	"
79.	Brook and Hazel,	pole.
80.	Brook and Union,	arm.
81.	Brook and Beech,	"
82.	Brook and Maple,	pole.
83.	C and B,	"
84.	Candia road and Mammoth road,	arm.
85.	Carpenter and Elm,	"
86.	Carpenter and Union,	"
87.	Cedar and Canal,	"
88.	Cedar and Elm,	"
89.	Cedar and Chestnut,	"
90.	Cedar and Pine,	"
91.	Cedar and Union,	"
92.	Cedar and Beech,	"
93.	Cedar and Lincoln,	"
94.	Cedar, near Maple,	"
95.	Central and Bedford,	"
96.	Central street hill,	pole.
97.	Central and Elm,	arm.
98.	Central and Chestnut,	"
99.	Central and Pine,	"
100.	Central and Union,	"
101.	Central and Beech,	"
102.	Central and Maple,	"
103.	Central and Lincoln,	"
104.	Central and Wilson,	"
105.	Central and Hall,	"

No. 106.	Central, near Cass,	arm.
107.	Charles,	"
108.	Charleston avenue and Carroll,	"
109.	Chestnut and Ray Brook,	"
110.	Clarke and River road,	"
111.	Clarke and Elm.	"
112.	Clarke and Union,	"
113.	Clinton and Dover,	"
114.	Conant and Beauport,	"
115.	Conant and Rimon,	pole.
116.	Conant and Montgomery,	arm.
117.	Concord and Vine,	"
118.	Concord and Chestnut,	"
119.	Concord and Pine,	"
120.	Concord and Union,	"
121.	Concord and Walnut,	"
122.	Concord and Beech,	"
123.	Concord and Maple,	"
124.	Concord and Dutton,	"
125.	Concord and Derry,	"
126.	Concord and Ashland,	"
127.	Concord and Hall,	"
128.	Concord square, east,	pole.
129.	Concord square, west,	"
130.	Coolidge avenue, near Kelly,	arm.
131.	Dean and Canal,	pole.
132.	Dean and Elm,	arm.
133.	Dean avenue and Elm west back,	"
134.	Dearborn and Taylor,	"
135.	Depot and Canal,	pole.
136.	Depot and Franklin,	arm.
137.	Derryfield Park,	"
138.	Douglas and Railroad,	pole.
139.	Douglas and Barr,	arm.
140.	Douglas and West,	pole.
141.	Douglas and Main,	arm.
142.	Dunbarton road and Front,	"
143.	East High and Nashua,	"
144.	East High and South,	"
145.	East High and Malvern,	"
146.	East High and Ashland,	"
147.	East High and Hall,	"
148.	East High and Buzzell,	"
149.	East Spruce and Barry avenue,	"
150.	East Spruce and Union	"
151.	East Spruce and Beech,	"
152.	East Spruce and Maple,	"

No. 153.	East Spruce and Lincoln,	arm.
154.	East Spruce and Wilson,	"
155.	East Spruce and Beacon,	"
156.	Elm and Ray Brook,	"
157.	Elm, below Railroad bridge,	"
158.	Elm avenue and Elm,	"
159.	Elm and Portsmouth Railroad,	pole.
160.	Ferry and Main,	arm.
161.	Ferry and Third,	"
162.	Ferry and Turner,	"
163.	Front, Amoskeag,	pole.
164.	Gates and Dubuque,	"
165.	Goffstown road and Front,	"
166.	Grove and Pine,	arm.
167.	Grove and Union,	"
168.	Grove and Beech,	"
169.	Grove and Belmont,	"
170.	Granite and Green,	"
171.	Granite and West,	"
172.	Granite and Main,	"
173.	Granite and Second,	"
174.	Granite bridge, west,	pole.
175.	Granite bridge, center,	"
176.	Granite bridge, east,	"
177.	Granite and State,	arm.
178.	Granite and Bedford,	"
179.	Granite and Canal,	pole.
180.	Granite and Franklin,	arm.
181.	Green and Elm,	"
182.	Green and Pine,	"
183.	Green and Beech,	"
184.	Hancock and Brown avenue,	pole.
185.	Hanover Square,	"
186.	Hanover and Nutfield lane,	arm.
187.	Hanover and Chestnut,	"
188.	Hanover and Pine	"
189.	Hanover and Union,	"
190.	Hanover and Beech,	"
191.	Hanover and Maple,	"
192.	Hanover and Lincoln,	"
193.	Hanover and Ashland,	"
194.	Hanover and Hall,	"
195.	Hanover and Belmont,	"
196.	Hanover and Beacon,	"
197.	Hanover Highlands,	pole.
198.	Highland and Grant,	arm.
199.	Hanover and Page,	"

No. 200.	Harrison and Elm,	arm.
201.	Harrison and Chestnut,	"
202.	Harrison and Pine,	"
203.	Harrison and Hazel,	"
204.	Harrison and Walnut,	"
205.	Harrison and Beech,	"
206.	Harrison and Ash,	"
207.	Harrison and Maple,	"
208.	Harrison and Oak,	"
209.	Harrison and Russell,	"
210.	Harvel, and South Main,	"
211.	Hayward and Beech,	"
212.	Hayward and Cypress,	"
213.	High and Chestnut,	"
214.	High and Pine,	"
215.	High and Union,	"
216.	Hollis and Canal,	pole.
217.	Hospital avenue and Massabesic	"
218.	Kelly and Rimmon,	arm.
219.	Kelly and Cartier,	"
220.	Kelly and Alsace,	"
221.	Kidder and Boyden,	pole.
222.	Kidder and Whitney,	"
223.	Kidder and Elm,	arm
224.	Lake avenue and Elm,	"
225.	Lake avenue and Chestnut,	"
226.	Lake avenue and Pine,	"
227.	Lake avenue and Union,	"
228.	Lake avenue and Beech,	"
229.	Lake avenue and Maple,	"
230.	Lake avenue and Lincoln,	"
231.	Lake avenue and Wilson,	"
232.	Lake avenue and Massabesic,	"
233.	Lake avenue and Beacon,	"
234.	Lake avenue, near Cass,	"
235.	Lake avenue and Cass,	pole.
236.	Lake avenue and Canton,	"
237.	Lake avenue and Hall road,	"
238.	Langdon and Canal,	arm.
239.	Langdon,	pole.
240.	Laurel and Laurel avenue,	arm.
241.	Laurel and Pine,	"
242.	Laurel and Union,	"
243.	Laurel and Beech,	"
244.	Laurel and Maple,	"
245.	Laurel and Lincoln,	"
246.	Laurel and Wilson,	"

No. 247.	Laurel and Hall,	arm.
248.	Laurel and Belmont,	"
249.	Laurel and Milton,	"
250.	Laurel and Beacon,	"
251.	Laurel and Cass,	"
252.	Liberty, below Webster,	"
253.	Lowell south back and Nutfield lane,	"
254.	Lowell and Elm,	"
255.	Lowell and Birch,	"
256.	Lowell and Chestnut,	"
257.	Lowell and Pine,	"
258.	Lowell and Union,	"
259.	Lowell and Walnut,	"
260.	Lowell and Beech,	"
261.	Lowell and Ash,	"
262.	Lowell and Nashua,	"
263.	Lowell and Malvern,	"
264.	Lowell and Ashland,	"
265.	Lowell and Hall,	"
266.	Lowell and Belmont,	"
267.	Manchester and Elm,	"
268.	Manchester and Chestnut,	"
269.	Manchester and Pine,	"
270.	Manchester and Union,	"
271.	Manchester and Beech,	"
272.	Manchester and Maple,	"
273.	Manchester and Lincoln,	"
274.	Manchester and Wilson,	"
275.	Manchester and Hall,	"
276.	Manchester and Milton,	pole.
277.	Marion and Main,	"
278.	Marion and McGregor,	arm.
279.	Market and Canal,	"
280.	Market and Franklin,	"
281.	Market and Elm,	"
282.	Massabesic and Belmont,	pole.
283.	Massabesic and Old Falls road,	"
284.	Massabesic and Cypress,	arm.
285.	Massabesic and Hall road,	"
286.	Mast and Main,	pole.
287.	Mast and Bowman,	arm.
288.	Mast and Riddle,	pole.
289.	Mast and New Mast road,	arm.
290.	Mast and Forrest,	"
291.	McGregor and Main,	pole.
292.	McGregor bridge, west,	"
293.	McGregor bridge, east,	"

No. 294.	Mechanic and Canal,	arm.
295.	Mechanic and Elm west back,	"
296.	Merrimack and Canal,	"
297.	Merrimack and Franklin west back,	"
298.	Merrimack and Franklin,	"
299.	Merrimack and Elm,	"
300.	Merrimack and Chestnut,	"
301.	Merrimack and Pine,	"
302.	Merrimack and Union,	"
303.	Merrimack and Beech,	"
304.	Merrimack and Maple,	"
305.	Merrimack and Lincoln,	"
306.	Merrimack and Wilson,	"
307.	Merrimack and Hall,	"
308.	Merrimack and Belmont,	"
309.	Merrimack and Beacon,	"
310.	Merrimack, east of Beacon,	"
311.	Merrimack square, west,	pole.
312.	Merrimack square, east,	"
313.	Middle and Canal,	arm.
314.	Middle and Franklin west back,	"
315.	Milford, near cemetery,	"
316.	Bismarck and Sylvester,	"
317.	Milford and Carroll,	"
318.	Milford and Riddle,	"
319.	Milford and Main,	"
320.	Mitchell and Beech,	"
321.	Monmouth and McGregor back street,	pole.
322.	Monroe and River road,	arm.
323.	Myrtle and Elm East back,	"
324.	Myrtle and Chestnut,	"
325.	Myrtle and Pine,	"
326.	Myrtle and Union,	"
327.	Myrtle and Walnut,	"
328.	Myrtle and Beech,	"
329.	Myrtle and Maple,	"
330.	Myrtle and Russell,	"
331.	Mead and Hall,	"
332.	Myrtle, near Hall,	"
333.	New Mast road and D,	"
334.	New Mast road and Wilkins,	pole.
335.	North and River road,	arm.
336.	North and Elm,	"
337.	North and Bay,	"
338.	North and Chestnut,	"
339.	North and Pine,	pole.
340.	North and Union.	arm.

No. 341.	North and Walnut,	arm.
342.	North Main in Eddy,	pole.
343.	North Adams and Ray Brook,	arm.
344.	Nutfield lane, rear Central fire station,	"
345.	Nutt road and Beech,	"
346.	Nutt road and Portsmouth Railroad,	pole.
347.	Orange and Elm,	arm.
348.	Orange and Pine,	"
349.	Orange and Union,	"
350.	Orange and Ash,	"
351.	Orange and Oak,	"
352.	Orange and Linden,	"
353.	Orange and Hall,	pole.
354.	Page and Portsmouth Railroad,	arm.
355.	Park square,	pole.
356.	Parker and West,	arm.
357.	Pearl and Elm east back,	"
358.	Pearl and Chestnut,	"
359.	Pearl and Pine,	"
360.	Pearl and Union,	"
361.	Pearl and Beech,	"
362.	Pearl and Oak,	"
363.	Pearl and Russell,	"
364.	Pearl and Linden,	"
365.	Pearl and Morrison,	pole.
366.	Pearl and Belmont,	arm.
367.	Pennacook and Canal,	pole.
368.	Pennacook and Elm,	arm.
369.	Pennacook and Chestnut,	pole.
370.	Pennacook and Pine,	arm.
371.	Pennacook and Union,	"
372.	Pleasant and Franklin,	"
373.	Prescott and Wilson,	"
374.	Prince and Boynton,	"
375.	Prospect and Elm east back,	"
376.	Prospect and Chestnut,	"
377.	Prospect and Pine,	"
378.	Prospect and Union,	"
379.	Prospect and Ash,	"
380.	Prospect and Oak,	"
381.	Prospect and Linden,	"
382.	Prospect and Hall,	"
383.	Putnam and Main,	"
384.	Putnam and Cartier,	"
385.	Putnam and Bartlett,	pole.
386.	Rowell and River road,	arm.
387.	River road, near Otis,	"

No. 388.	River road and Stark Park,	arm.
389.	Sagamore and Pine.	"
390.	Sagamore and Walnut,	"
391.	Salmon and Canal,	"
392.	Salmon and Elm,	"
393.	Salmon and Chestnut,	pole.
394.	Salmon and Pine,	"
395.	Salmon and Union,	"
396.	Salmon and Beech,	arm.
397.	School and Turner,	"
398.	School and Third,	"
399.	Schiller and Second,	"
400.	Schuyler and Main,	pole.
401.	Shasta and Elm,	arm.
402.	Silver and Union,	"
403.	Silver and Beech,	"
404.	Silver and Lincoln,	"
405.	Silver and Wilson,	"
406.	Somerville and Jewett,	"
407.	Spring and Canal,	"
408.	Spring and Elm west back,	"
409.	Spruce and Elm,	"
410.	Spruce and Chestnut west back,	"
411.	Spruce south back and Elm east back,	pole.
412.	Stark and Canal,	arm.
413.	Stark and back street,	"
414.	Summer and State,	pole.
415.	Thornton and Sullivan,	arm.
416.	Tremont square,	pole.
417.	Union, near Campbell,	arm.
418.	State east back,	"
419.	State, south of Granite,	"
420.	State, north of Granite,	"
421.	Sullivan and Beauport,	pole.
422.	Sullivan and Main,	"
423.	Summer and Dearborn,	arm.
424.	Summer and Hall,	"
425.	Valley and Elm,	"
426.	Valley and Pine,	pole.
427.	Valley and Union,	arm.
428.	Valley and Wilson,	"
429.	Valley and Belmont,	"
430.	Valley and Taylor,	"
431.	Valley and Cypress,	"
432.	Valley and Jewett,	"
433.	Vinton and Taylor,	arm.
434.	Walker and Main,	"

No. 435.	Walker and Fourth,	arm.
436.	Walker and Second,	"
437.	Walker and Turner,	pole.
438.	Washington and Church,	arm.
439.	Water,	"
440.	Water and Elm,	"
441.	Wayne and McGregor,	pole.
442.	Wayne and Main,	arm.
443.	Wayne and Beauport,	pole.
444.	Wayne and Dubuque,	arm.
445.	Webster and River road,	pole.
446.	Webster and Elm,	arm.
447.	Webster and Chestnut,	"
448.	Webster and Pine,	"
449.	Webster and Walnut,	pole.
450.	Welch avenue and Calef road,	"
451.	West Hancock and Second,	"
452.	West Hancock and Dartmouth,	arm.
453.	West Hancock and South Main,	"
454.	Whitford and Union,	"
455.	Wilton and Main,	"
456.	Winter,	"
457.	Winter and Parker,	"
458.	Winter place and Elm west back,	"
459.	Young and Taylor,	"
460.	Young and Ainsworth avenue,	"
461.	Young and Mammoth road,	"
462.	Cedar and Franklin,	"
463.	Laurel north back and Union,	"
464.	Clarke and North Adams,	"
465.	Prospect and Beech,	"
466.	McDuffie and Huntress,	"
467.	Hanover and Alfred,	"
468.	Summer and Belmont,	"
469.	East Spruce and Old Falls road,	"
470.	Nelson and Mammoth road,	"
471.	Sagamore and Russell,	"
472.	Hollis west of Elm,	"
473.	Hall and Somerville,	"
474.	Blodget and Oak,	"
475.	Blodget and Beech,	"
476.	Goffstown and Omega,	"
477.	Bridge and Mammoth road,	"
478.	Pleasant and Elm,	"
479.	Hanover and Lake avenue,	"
480.	Elm and Thayer,	"
481.	Bridge and Birch,	"

No. 482.	Blodget and Russell,	arm.
483.	Rimmon, near Putnam,	pole.
484.	Spruce and Hall,	arm.
485.	Boynton and Grant,	"
486.	Rockland avenue and Goffstown line,	pole.
487.	Rockland avenue and Wilkins,	arm.
488.	Somerville and Taylor,	"
489.	Concord and Ash,	"
490.	Sagamore and Elm,	"
491.	Webster and Beech,	"
492.	Lake Avenue and Belmont,	"
493.	Orange and Russell,	"
494.	Silver and Belmont,	"

REPORT
OF THE
BOARD OF WATER COMMISSIONERS.

BOARD OF WATER COMMISSIONERS, 1902.

WILLIAM C. CLARKE, *Mayor, ex officio.*

ALPHEUS GAY, died April 21, 1902.

CHARLES H. MANNING, term expires January, 1907.

CHARLES T. MEANS, died January 25, 1902.

HARRY E. PARKER, term expires January, 1909.

FRANK DOWST, term expires January, 1906.

EDGAR J. KNOWLTON, term expires January, 1904.

CHARLES M. FLOYD, term expires January, 1908.

WILLIAM COREY, term expires January, 1905.

OFFICERS.

CHARLES H. MANNING, *President.*

CHARLES K. WALKER, *Superintendent.*

ARTHUR E. STEARNS, *Registrar.*

JOSIAH LASELLE, *Engineer at Low Service Pumping Station.*

CHARLES A. WHITNEY, *Engineer at High Service Pumping Station.*

REPORT OF THE BOARD OF WATER COMMISSIONERS.

To the Honorable City Councils of the City of Manchester, N. H.:

GENTLEMEN,—The Manchester Water Board herewith present their thirty-first annual report for the year ending December 31, 1902, with the detailed report of the superintendent during the same period.

FINANCIAL CONDITION.

Receipts and expenditures for the year have been as follows:

Balance unexpended December 31, 1901	\$104,823.19
Received from water rentals, etc., 1902	115,531.48
Received from hydrant rentals, 1902	18,800.00
Total	<hr/> \$239,154.67
Amount paid for current expenses	\$24,261.58
Amount paid for construction expenses	47,934.68
Interest on water bonds, 1902	36,313.00
Hydrant rentals set aside for sinking fund	18,800.00
Set aside for sinking fund for payment of water bonds, state law	5,000.00
	<hr/> \$132,309.26
Amount on hand December 31, 1902	<hr/> \$106,845.41

Respectfully submitted.

WILLIAM C. CLARKE, *ex officio*,
CHARLES H. MANNING, *President*,
HARRY E. PARKER,
FRANK DOWST,
EDGAR J. KNOWLTON,
CHARLES M. FLOYD,
WILLIAM COREY,
Water Commissioners.

JANUARY 1, 1903.

SUPERINTENDENT'S REPORT.

To the Board of Water Commissioners of the City of Manchester :

The Superintendent respectfully submits the following report for the year 1902 :

The lake has been full this year, making two years of high water in succession. The water has been from four to thirty-two inches above the the dam the whole season. Today it stands 27 inches above. Fifteen hundred feet of land bordering on the lake shore has been added to the city's property at Severance's Beach. There have been no repairs at the dam. New flash boards were made, but on account of high water, were not put on. The Mill Dam House has been taken away and the grounds graded. The north side of the canal bank has been fenced, and the fence on the north and west side of the highway repaired. About \$700.00 was expended from the dam to the old pumping station. On January 6th, electric lights were put in at the station. The small dam at the foot of the raceway was built over this fall, a new crosshead was put into one of the pumps, the disc was refitted on to the shaft, and new teeth put into one of the driving wheels. The chimney at the northwest corner of the building was built over so as to give more draft, which it did.

Forty cords of hard wood were bought for \$5.00 a cord to run the boiler for heating until we could get coal. The fence was repaired at the old reservoir, and nothing done at the new reservoir.

The Worthington pumps are still supplying the high service reservoir and have done their work without any unusual repairs. The boilers have been repaired so that both are in good condition today. The cost of pumping has increased on account of the high price of coal which is nearly double what we have paid. We have on hand nearly 200 tons which cost us \$7.50 a ton on the cars at Fletcher's Crossing.

C. H. Whitney has had charge of this station for a year and eight months and gives satisfaction.

The new pumps are now in place and will be ready to pump in a few weeks.

The Snow Company has been paid \$20,000. The contracted price was \$50,000.00, all completed.

THE FORCE AND SUPPLY MAINS.

The work on these mains has been about the same this year as last. The old cement pipe on the low service still holds goods and may last a

number of years yet. We hope it will, for it would cost today to relay it, \$70,000.00.

We have laid two miles of distribution pipe at the expense of \$12,410.00 including 15 hydrants and 17 gates, making 102 miles of distribution pipe in this city.

The streets where new pipes were laid are the following :

Brown Ave., Charlestown Ave., Canal St., C St., Clay, Central, and George Sts., Goffstown Road, Hall, Haywood, Mystic, McNeal, Merrimack Sts., Oakland Ave., Robie St., River Road, Sagamore St., Titus Ave., and Wilson St.

We have put in 108 new services, and relaid about the same number. One service pipe on Bridge street was destroyed by electrolysis.

The water rates were reduced, beginning July first. Whether or not it was a wise measure time will show. There is a great deal to be done to keep up the plant. You must bear in mind that three and one-half million gallons have to be pumped every day and the machinery have to be kept in repair. The force and supply mains on the low service are 20-inch cement pipes which will have to be renewed before many years. The rates have been as low in this city as in any city where the water has to be pumped. You can lower the rates without any trouble, but that they can never be raised, has been the experience of all New England cities.

PUMPING RECORD—HIGH SERVICE ENGINE, 1902.

MONTHS	No. days pump- ing.	TOTAL PUMPING TIME PER MONTH.		Total number of strokes.	Average strokes per minute.	COAL IN POUNDS.				Number gallons pumped.	Gallons pumped per pound of coal.	Dynamic head.
		Hours.	Min.			Raising steam and bank'g.	Pump- ing.	Ashes and clinkers.	Total coal.			
January	15	115	45	290,430	41.82	17,510	35,719	5,315	53,229	16,052,717	450	270
February	14	114	15	284,547	41.55	16,072	35,341	5,085	51,413	15,719,490	445	270
March	16	126	00	315,091	41.68	16,074	35,257	5,420	54,331	17,401,225	443	270
April	15	121	40	301,650	41.32	12,728	38,248	5,240	50,976	16,669,869	436	270
May	19	140	45	353,535	41.86	12,070	45,196	6,239	57,936	19,461,002	431	270
June	21	139	00	348,294	41.76	12,820	43,453	6,146	56,273	19,294,668	444	270
July	22	143	15	339,544	41.83	13,696	45,062	6,177	58,758	19,852,084	441	270
August	23	137	50	347,723	42.04	13,919	43,174	6,095	57,063	19,275,679	446	270
September	17	124	00	324,546	43.62	10,556	39,092	4,586	49,648	17,814,751	456	270
October	16	125	05	317,517	42.31	11,446	39,795	5,387	51,241	17,472,369	439	270
November	15	114	20	291,577	42.51	11,360	36,093	4,039	47,423	16,051,005	445	270
December	15	113	25	291,216	42.78	10,150	39,484	6,147	49,634	16,027,880	406	270
	208	1,515	20	3,825,660		157,401	479,914	65,976	637,315	211,092,739		

284.5 tons of coal were used in pumping; 526 gallons of oil; 324 pounds of waste.

In the month of December, 8,216 lbs. of coal were used by Snow pump.

PUMPING RECORD—LOW SERVICE STATION.

MONTHS.	Kind of pump.	No. hours work.	No. hours work.	No. strokes.	No. strokes.	No. strokes per minute.	No. strokes per minute.	No. Gallons pumped by Davidson.	No. Gallons pumped by Wood.	Total gallons.	Daily average.
January	Davidson	246	00	316,650	251,750	20.60	22.17	48,130,800	33,231,000	81,361,800	2,495,812
February	Davidson	288	40	348,220	145,719	20.02	22.15	52,929,440	19,234,908	72,164,348	2,577,298
March	Davidson	383	45	476,509	16,275	20.04	20.11	72,429,368	2,148,300	74,577,668	2,405,719
April	Davidson	363	00	449,682	100,345	20.60	22.40	68,351,644	21,165,981	89,517,625	2,625,515
May	Davidson	403	00	507,160	535,467	20.61	21.20	77,137,268	81,390,984	158,528,252	2,774,885
June	Davidson	287	01	363,194	59,821,432	20.80	20.98	54,687,488	79,821,432	134,508,920	2,488,239
July	Davidson	421	00	535,467	74,795,704	21.20	20.48	81,390,984	74,795,704	156,186,688	2,493,190
August	Davidson	417	00	525,414	492,077	20.98	19.20	79,821,432	2,735,700	82,557,132	2,390,455
September	Davidson	400	05	492,077	20,725	20.48	21.00	74,795,704	70,319,760	145,115,464	2,343,992
October	Davidson	384	25	469,529	63,671	20.38	20.60	71,368,408	8,406,572	79,774,980	2,434,884
November	Wood	366	40	462,630		21.00	15.61	70,319,760		70,319,760	
December	Davidson	349	45	441,265		20.60		67,076,840		67,076,840	
	Wood										
		4,310	37	5,387,827	658,485			818,433,156	86,920,461	905,353,617	2,469,740

RAINFALL AT HIGH SERVICE STATION, 1902.

DAY OF MONTH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1		*.07	1.24		.22		.50			.14		*.24
2		*.65	.45						.16			
3					.05	.08	1.11					.63
4						.23			.25			
5					.44	.08	.10			.30		*.70
6			*.90					.84		1.32		
7					.23	.10			.24		.03	.18
8	*.05					.40		.10				
9			*.60	2.45								
10	*.08			.43		.04	.22		.60			*.06
11				.13				1.43				
12	*.60							.82		.55	.09	*.07
13			.04	.05		.15			.62		.18	*.60
14			.54						.16		.04	
15						.29	.31	.12				
16						.09	.10					*.81
17		*.80	.82			.58						*.66
18												
19			.26		.45	.06		.06	.28		.08	
20			.07		.10		1.03			.09		
21			.06			.56	.47	.47				1.54
22	*.95					.06	.05					
23								.32		.23		
24					.04							
25					.37	.03		.12				*.21
26		*.39		.78	.02	.63			.09		.26	*.09
27	*.61			.06	.53				.50		.07	
28					.31				.13	3.49		
29			.94		.03	.25	.05	.08	1.55			
30				1.19					.16			*.14
31			.11									
	2.29	1.91	6.03	5.09	2.79	3.63	3.94	4.36	4.74	6.12	.75	5.93

Total rain for the year, 47.58 inches.

1895. Total rainfall, 42.06 inches.

1896. Total rainfall, 38.41 inches.

1897. Total rainfall, 49.78 inches.

1898. Total rainfall, 47.15 inches.

1899. Total rainfall, 36.27 inches.

1900. Total rainfall, 47.89 inches.

1901. Total rainfall, 47.47 inches.

1902. Total rainfall, 47.58 inches.

The income from the sale of water for 1902 has been as follows:

Received for water by rate	\$23,785.49	
for water by meter	90,479.10	
for building purposes	233.34	
from fines	434.00	
	<hr/>	\$114,931.83
Received for pipes and labor	50.85	
from F. O. Clement (old brass)	31.20	
from Stark Mills (sprinkler pipe)	62.50	
from East Side Shoe Co , (sprinkler pipe)	71.00	
from Manchester Mills, pipe	20.80	
from City Hospital (drilling)	24.75	
from Oak Hill Hospital, pipe	54.20	
from Notre Dame Hospital, 4 inch pipe	43.00	
	<hr/>	\$358.25
from F. Brown, lease	1.00	
from G. G. Griffin, lease	1.00	
from Grattan Cotton, Association, lease	22.00	
from F. H. Gilbert, rent of Brown land	4.00	
from H. A. Boone, rent of Harvey land	10.00	
from Asa Haselton, rent of land . .	50.00	
from Frank McIntyre, rent of Reed		
land	3.25	
from Mell Hall, rent of Cochrane land .	10.00	
from S. M. McDonald, rent	60.00	
N. W. Paige (Mill Dam House)	60.00	
Charles Spofford, hay and fruit on		
Canfield and Hamblett farm	20.00	
	<hr/>	\$241.25
		<hr/>
		\$115,531.48
Received for hydrant rental		18,800.00
		<hr/>
Total		\$134,331.48

Abatements, \$400.82.

Amount on hand December 31, 1901	\$104,823.19	
Received for water rent, etc., 1902	115,531.48	
Received for hydrant rentals, 1902	18,800.00	
	<hr/>	\$239,154.67
Amount paid for current expenses	\$24,261.58	
Amount paid for construction expenses	47,934.68	

Interest on bonds	\$36,313.00	
Hydrant rentals set aside for sinking fund	18,800.00	
State Law, 1897, bonds set aside for sinking fund	5,000.00	
		<hr/>
		\$132,309.26
		<hr/>
Amount on hand December 31, 1902		\$106,845.41

CLASSIFICATION OF ACCOUNTS, 1902.

Superintendence, repairs, etc	\$14,850.98	
Stationery and printing	175.46	
Office and incidental expenses	522.29	
Pumping expenses, low service . . . ,	2,106.39	
Pumping expenses, high service	5,567.58	
Repairs to buildings	260.98	
Repairs to dam, canal, races and reservoir. . . .	777.90	
		<hr/>
		\$24,261.58
Service pipes	1,628.86	
Distribution pipes	14,503.31	
Fire hydrants and valves	884.22	
Meters	1,887.66	
Land and water rights	6,725.00	
Pumping machinery and buildings	22,305.63	
		<hr/>
		\$47,934.68
Sinking fund from fire hydrants	\$18,800.00	
Sinking fund for water bonds	5,000.00	
		<hr/>
		\$23,800.00
		<hr/>
		\$95,996.26

Construction Expenses.

Land and water rights	\$159,234.00
Dam, canal, penstock and races	101,399.16
Pumping machinery and buildings	212,116.52
Distribution reservoirs	117,697.90
Force and supply main	89,769.02
Distribution pipes	641,390.37
Fire hydrants and valves	63,746.84
Meters and fixtures	62,943.60
Service pipes	82,384.64
Grading and fencing	17,470.39
Tools and fixtures	10,649.35
Boarding and storehouses	919.36
Roads and culverts	4,405.20
Supplies	550.39

Engineering	\$22,176.19	
Livery and traveling expenses	2,856.64	
Legal expenses	563.79	
		<hr/>
Total	\$1,590,273.36	

Current Expenses.

Superintendence and repairs	\$402,867.74	
Stationery and printing	8,189.22	
Office and incidentals expenses	35,689.42	
Pumping expenses at low service	64,639.08	
Pumping expenses at high service	39,801.42	
Repairs to buildings	6,327.89	
Repairs to dam, canal and reservoirs	7,849.33	
		<hr/>
Total	\$565,364.10	
Interest	\$40,678.51	
Highway expenditures	14,000.53	
		<hr/>
		\$54,679.04
		<hr/>
		\$2,210,316.50
Interest, discount, and labor performed on highway, transferred, and tools and materials sold	74,618.33	
Current expenses to December 31, 1902	565,364.10	
		<hr/>
		\$639,982.43
		<hr/>
Total cost exclusive of interest and current expenses	\$1,570,334.07	
Interest and discount to December 31, 1901	\$1,041,506.51	
Interest for 1902	36,313.00	
		<hr/>
Total to December 31, 1902	\$1,077,819.51	

AMOUNT OF WATER BONDS ISSUED TO DEC. 31, 1902.

Issued January 1, 1872, rate 6 per cent, due January 1, 1902	\$100,000.00
Paid January 1, 1902.	
Issued January 1, 1887, rate 4 per cent, due January 1, 1907	\$100,000.00
July 1, 1890, rate 4 per cent, due July 1, 1910	100,000.00
January 1, 1892, rate 4 per cent, due January 1, 1912	100,000.00
August 1, 1893, rate 5 per cent, due August 1, 1913	100,000.00
November 1, 1893, rate 4 1-2 per cent, due November 1, 1913	100,000.00
October 1, 1894, rate 4 per cent, due October 1, 1914	50,000.00

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July 1, 1895, rate 4 per cent, due July 1, 1915 . . .	\$100,000.00
December 16, 1895, 4 per cent, due December 16, 1915	50,000.00
January 1, 1897, rate 4 per cent, due January 1, 1917	100,000.00
<hr/>	
Total	\$800,000 00

SINKING FUND.

1893	\$12,750.00
1894	13,925.00
1895	15,800.00
1896	16,800.00
1897	17,175.00
1898	17,675.00
1898	5,000.00
1899	5,000.00
1899	18,100.00
1900	18,425.00
1900	5,000.00
1901	5,000.00
1901	18,575.00
1902	18,800.00
1902	5,000.00
<hr/>	
Total	\$193,025.00
Interest to date	24,569.36
Premium on bond sold and bought	1,279.42
<hr/>	
Total	\$218,873.78
Paid bonds due January 1, 1902	100,000.00
<hr/>	
On hand December 31, 1902	\$118,873.78

STATEMENT OF RECEIPTS.

Year.	Total.	Hydrant rent.	Water by rate.	Water by meter.	Received for building purposes.	Fines.	Labor, pipe, and mate- rials sold.	Rentals, and buildings sold.	Number of meters.
1872	\$573.61						\$573.61		
1873	2,097.60		\$1,692.69	\$190.84		\$14.00	200.67		8
1874	32,154.07	\$22,425.00	7,987.27	1,436.56	\$119.10	104.18	699.85		98
1875	29,223.60	13,095.00	10,292.13	3,348.11	122.13	120.59	2,245.64		160
1876	39,028.47	16,320.00	15,900.63	6,305.81	72.32	180.16	249.55		166
1877	43,823.30	17,475.00	18,064.51	7,783.09	136.10	233.04	131.56		202
1878	48,874.26	17,970.00	20,255.97	10,090.25	83.00	232.82	241.62		226
1879	53,143.17	18,165.00	21,610.13	12,732.93	81.60	240.64	303.87		251
1880	57,655.25	18,300.00	23,795.96	14,794.34	79.50	210.39	465.06	\$10.00	280
1881	60,215.62	18,780.00	25,336.18	15,554.98	105.00	223.99	203.87	11.00	310
1882	67,630.13	20,130.00	26,803.06	19,898.69	146.05	197.49	443.24	11.00	371
1883	73,458.20	20,520.00	28,838.24	23,431.20	314.65	208.04	125.07	21.00	404
1884	75,580.08	21,350.00	31,724.07	21,329.75	195.10	231.96	738.20	11.00	446
1885	80,404.12	18,900.00	33,597.02	27,425.35	102.50	186.80	181.45	11.00	486
1886	75,129.99	19,750.00	33,062.11	21,573.45	287.40	130.80	320.23	6.00	613
1887	80,518.17	20,437.50	33,497.21	25,277.09	351.70	119.20	819.47	16.00	739
1888	85,643.82	21,000.00	33,864.78	20,838.82	543.80	149.80	243.62	3.00	842
1889	86,700.46	18,240.00	34,140.99	33,596.05	361.95	153.20	155.27	53.00	951
1890	90,463.37	19,880.00	32,431.10	37,009.80	649.90	151.80	298.77	42.00	1,135
1891	76,005.23	4,590.00	30,588.79	40,479.25	494.80	160.40	200.99	91.00	1,313
1892	83,474.79	5,000.00	31,344.24	46,139.35	416.00	168.40	139.80	267.00	1,608
1893	104,170.08	12,750.00	32,603.59	58,103.20	1,033.75	159.60	339.38	180.56	1,895
1894	110,210.29	13,925.00	32,176.28	62,501.35	697.80	227.40	334.82	347.64	2,182
1895	118,374.50	15,800.00	32,903.99	67,465.90	808.20	300.40	768.17	327.84	2,520
1896	128,907.03	16,800.00	32,540.03	77,610.10	638.48	302.80	440.12	575.50	2,865
1897	125,719.17	17,175.00	30,647.17	76,148.60	331.85	321.80	627.08	467.67	3,134
1898	131,184.08	17,675.00	29,409.58	80,643.30	187.00	359.80	441.90	2,467.50	3,340
1899	133,436.41	18,100.00	28,063.34	85,764.80	246.80	363.80	400.59	497.08	3,502
1900	138,241.94	18,425.00	27,868.85	91,079.30	95.80	397.80	232.59	142.60	3,667
1901	138,206.14	18,575.00	26,954.99	91,382.60	220.30	437.60	410.90	224.75	3,804
1902	134,331.48	18,800.00	23,785.49	90,479.10	233.34	434.00	358.25	241.25	3,983

1878, meter rate was changed. 1884, hydrant rates reduced. 1886, meter and other rates reduced. 1889, hydrant rates reduced. 1891 and 1892, received only part of hydrant rent, and nothing from water-troughs or street sprinklers. 1893, hydrant rent and water-closets rate reduced. July 1, 1902, rates reduced.

The following amounts have been paid over to the city treasurer, and credited to the water-works:

1872, supplies and materials sold	\$573.61
1873, supplies and materials sold	177.07
accrued interest on water bonds sold	193.26
accrued interest on state bonds sold	146.00
water rents	1,920.53
1874, supplies and materials sold	607.89
March 12, highway expenditures transferred from water account	14,000.53
March 17, interest and discount transferred from water account	12,347.25
September 1, interest and discount transferred from water account	22,361.74
water and hydrant rent	30,233.54
December 29, interest transferred	4,566.25
1875, water and hydrant rent	27,119.15
sundry items	2,104.45
1876, water and hydrant rent	38,879.47
sundry items	149.00
1877, water and hydrant rent	43,691.74
sundry items	131.56
1878, water and hydrant rent	48,632.64
sundry items	241.62
1879, water and hydrant rent	52,839.30
sundry items	303.87
1880, water and hydrant rent	57,180.19
sundry items	475.06
1881, water and hydrant rent	60,000.75
sundry items	214.87
1882, water and hydrant rent	67,175.89
sundry items	454.24
1883, water and hydrant rent	73,312.13
sundry items	146.07
1884, water and hydrant rent	74,830.88
sundry items	749.20
1885, water and hydrant rent	80,211.67
sundry items	192.45
1886, water and hydrant rent	74,803.76
sundry items	326.23
1887, water and hydrant rent	79,682.70
sundry items	835.47
1888, water and hydrant rent	85,397.20
sundry items	246.62
1889, water and hydrant rent	86,492.19
sundry items	208.27

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1890, water and hydrant rent	\$90,122.60
sundry items	340.77
1891, water and hydrant rent	76,313.24
sundry items	291.99
1892, water and hydrant rent	83,067.99
sundry items	406.80
1893, water rents	90,900.14
sundry items	519.94
1894, water rents	95,602.83
sundry items	682.46
1895, water rents	101,478.49
sundry items	1,096.01
1896, water rents	111,091.41
sundry items	1,015.62
1897 water rents	107,449.42
sundry items	1,094.75
premiums on bonds	6,248.00
1898, water rents	110,599.68
sundry items	2,909.40
1899, water rents	114,438.74
sundry items	897.67
1900, water rents	119,441.75
sundry items	375.19
1901, water rents	118,995.49
sundry items	635.65
1902, water rents	114,931.83
sundry items	599.50
	<hr/>
	\$2,395,705.82

SERVICE PIPES.

One hundred and eight (108) service pipes have been laid, as follows:

106 1-inch diameter	2,553.6 feet
1 4-inch diameter	37.0 "
1 6-inch diameter (sprinkler)	
	<hr/>
108	2,590.6 feet

SERVICE PIPES RELAID.

1 1-2-inch service	17.7 feet to 1-inch diameter	15.0 feet
78 3-4-inch service	2,034.0 feet to 1-inch diameter	2,013.0 "
10 1-inch service	257.0 feet to 1-inch diameter	235.0 "
1 1-inch service	30.0 feet to 1 1-2-inch diameter	30.0 "
1 1-inch service	29.3 feet to 2-inch diameter.	25.0 "
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91	2,368.0	2,318.0 feet

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SERVICE PIPES LAID TO DATE.

18	1-2-inch diameter.	378.2 feet
1,081	3-4-inch diameter.	27,184.6 "
4,506	1-inch diameter	114,721.4 "
19	1 1-4-inch diameter.	800.2 "
30	1 1-2-inch diameter.	938.5 "
76	2-inch diameter	2,348.2 "
2	2 1-2-inch diameter.	63.0 "
6	3-inch diameter	122.8 "
12	4-inch diameter	281.5 "
9	6-inch diameter.	
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5,759		146,838.4 feet

27.81 miles of service pipe laid to December 31, 1902.

Fifty-seven hundred and fifty-nine (5,759) service pipes laid to December 31, 1902.

METERS.

The number of meters set during the year has been one hundred seventy-nine (179).

Total number in use, thirty-nine hundred and eighty-three (3,983).

The number of applications for water has been one hundred and four (104).

Total number of applications to date, fifty-nine hundred and ten (5,910).

LOCATION OF HYDRANTS.

Brown avenue, corner Westland avenue.

Brown avenue, near Locke Residence.

C street.

Canal street, south of Sagamore.

Central street, south of Belmont.

Central street, south of Milton.

Central street, south of Beacon.

George street, near Mase Residence.

Hayward street, corner Lincoln.

Hayward street, West Side Pipe Yard.

Mystic street, corner Oakland.

North River Road, corner Salmon.

Robie street, in yard.

Titus street, corner Union.

Walnut street, 500 feet north of Webster.

LOCATION OF GATES.

Brown avenue, 6-inch gate near hydrant.
C street, 6-inch gate east side B street.
Canal street, 8-inch gate North.
Central street, 6-inch gate 60 feet west of Belmont.
Central street, 6-inch gate 30 feet east of Milton.
Central street, 6-inch gate east side of Beacon.
Charleston street, 6-inch gate, east side of Carroll.
Hall street, 6-inch gate, north side of Harvard.
Hayward street, 6-inch gate west side of Lincoln.
McNeil street, 6-inch gate east side of Second.
Merrimack street, 6-inch gate west side of Beacon.
Milford Lane, 6-inch gate south side of Milford.
North River Road, 8-inch gate south side of North.
Oakland avenue, 6-inch gate west side of Mystic.
Oakland avenue, 6-inch gate east side of Revere.
Robie street, 6-inch gate south side of Donald.
Titus street, 8-inch gate west side of Union.
Walnut street, 6-inch gate north side of Webster.

DISTRIBUTION PIPES LAID, AND GATES AND HYDRANTS SET, 1902.

STREET.	PIPE LAID, LENGTH IN FEET.			GATES SET.			Hydrants.	LOCATION.
	6 in.	8 in.	10 in.	6 in.	8 in.	10 in.		
Brown ave	30	973	.....	1	.....	.....	2	Southward to Locke Residence.
C.....	607	.....	.....	1	.....	.....	1	Boynton to B.
Canal.....	7	1,230	.....	.....	1	.....	1	Salmon to Brook.
Central.....	826	.....	.....	3	.....	.....	3	454 Central to Beacon.
Charleston	260	.....	.....	1	.....	.....	.....	George to Rochelle.
Clay.....	450	.....	.....	.....	.....	.....	.....	West of Cypress.
George.....	43	391	.....	.....	.....	.....	1	South of Charleston.
Goffstown	158	.....	.....	.....	.....	.....	.....	Westward.
Hall	16	922	.....	1	.....	.....	.....	Harvard to E. Side Co.
Hayward.....	937	.....	.....	1	.....	.....	2	West of Wilson.
McNeal.....	206	.....	.....	1	.....	.....	.....	East of Second.
Merrimack.....	102	.....	.....	1	.....	.....	.....	West of Beacon.
Milford lane	232	.....	.....	1	.....	.....	.....	South of Milford.
Mystic ave	326	.....	.....	.....	.....	.....	1	North of Oakland.
North River Rd.	4	523	.....	.....	1	.....	1	North to Salmon.
Oakland	260	.....	.....	2	.....	.....	.....	East of Mystic.
Robie	836	.....	.....	1	.....	.....	1	South of Donald.
Sagamore	48	.....	.....	.....	.....	.....	.....	Near Swedish Church.
Titus.....	9	1,011	.....	.....	1	.....	1	Westward past School.
Walnut.....	26	522	.....	1	.....	.....	1	North of Webster.
Wilson.....	.....	.....	262	.....	.....	.....	.....	Southward.
	5,383	5,572	262	15	3	.....	15	

Total feet laid, 11,217 feet, or 2.124 miles.

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1902.

STREETS.	Length and size of cement-lined pipe laid.		Length and size of cast-iron pipe laid.							Gates set.						Air valves.	Hydrants.
	20 in.	6 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.		
Pumping station *			4256			153		43		3			2		2		2
Force main, C. I. J.	1226		193							2							
Force main, C. J.	6738	63	324					75		2					3		2
Supply main †	8049	126	361			28				1			1		5		1
Adams, north								1308							3		
Appleton								1634							3		
Amherst							1010	4394						2	8		4
Arlington								1765							3		13
Ash								920	954						3	2	1
Ashland						2264							3				
Auburn							1010	4104						1	8		13
Baker								2624							5		5
Bay								1496							5		1
Beacon								1785							1		1
Bedford						73		792					1		3		3
Beech					11207		5103	81				14		6	3	1	9
Belmont							1111	6121						2	10		8
Bell								883							3		3
Birch								501							2		2

Blodget.....	15341								10	10	2	4
Bridge.....	5482	4316										21
Bridge (old).....	282											1
Brook.....	3725											9
Brown avenue.....	973	2862										5
Buzzell.....	184	156									1	1
Byron.....	1018								2			2
Calef road.....	2925	708	931						1	1	1	2
Canal.....	6597	52							10			3
Candiaroad.....	2873	146		1					3	6	2	9
Canton.....	771									1		1
Carpenter.....	1404									2		1
Cass.....	495									2		
Cedar.....	1010	3651							1	8		12
Central.....	1192	6234							2	12		18
Chase avenue.....	500									1		1
Cheney place.....			228									
Chestnut.....	1527	4089	1924						6	13	8	8
Concord.....	1010	4396							1	8		14
Church.....			147									
Gilley.....	1213								1			
Clarke.....	1949									3		4
Clay.....	1823									2		4
Cypress.....	2300									6		3

* Station to Fletcher's Crossing. † From old reservoir by Mammoth road and Massabesic Street to Lake avenue.

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1902.—Continued.

STREETS.	Length and size of cement lined pipe laid.		Length and size of cast-iron pipe laid.							Gates set.						Air valves.	Hydrants.
	20 in.		6 in.														
	20 in.	6 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.		
Dean.....									284							2	2
Dearborn.....									670							1	1
Depot.....				835					29					1		2	2
Derry.....										147							
Dix.....									254							1	
Dutton.....										471						1	
Elm.....				12642	4134				347				17	4		10	10
East High.....									2834							4	6
Elm avenue.....										384							
Everett.....										355						1	
Foster avenue.....										248						1	
Franklin.....									1120							4	1
Glenwood.....									1017							3	2
Gore.....									1910							5	4
Granite.....				619				290	832				2			2	4
Green.....									920							3	2
Grove, M. corp.....									231								
Grove, E. Man.....									1735							5	4

BOARD OF WATER COMMISSIONERS.

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Hall				922	1597				4	2
Hall road					1118				1	—
Hancock					1181				1	3
Hanover				1440	6291				3	17
Hanover road				4569	79				1	3
Harrison					4682					11
Harvard					2148				4	3
Hayes avenue					472				1	1
Hayward					6824				9	13
Hazel						434				1
High						858				3
Highland Park						1040			1	1
Hollis						756			3	3
Hosley						532			1	
Jane										2
Jewett				1701	527				2	3
Jones					471				1	
Josselyn					539				1	1
Kidder					750				3	3
Kidder's court										1
					57				3	1
Lake avenue			45		4329			3	10	1
Langdon					460				2	2
Laurel					5748				10	13
Liberty					657	238			1	1

Myrtle.....	938	4319						1	9	13
Mystic.....		819							1	1
Mystic ave.....		326								1
Nashua.....						534			1	
Nelson.....		578							2	2
Norfolk.....		105							1	
North.....		81		1486					1	4
North river road.....		1384						4	1	7
Nutt road.....		547						1	1	1
Oakland.....		850							3	1
Old Falls road.....		562								1
Old Falls avenue.....		338							1	2
Orange.....	930	4039						1	9	13
Orchard avenue.....		1085							2	2
Page.....		1653							2	4
Pennacook.....		1570							2	4
Pearl.....	1012	4076						2	9	14
Pine.....	7516	2089						11	5	6
Pleasant.....		1076							3	4
Porter.....		364							1	
Prescott.....		318							1	1
Procter road.....								1		
Prospect.....		4640						1	9	13
Prout avenue.....		300							1	

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1902.—Continued.

STREETS.	Length and size of cement-lined pipe laid.		Length and size of cast-iron pipe laid.							Gates set.					Air valves.	Hydrants.		
	20 in. 6 in.		20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.			6 in.	4 in.
	20 in.	6 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.			6 in.	4 in.
Ray.....								484								1	2	
Revere.....								313								1		
Riley.....								593								1	1	
Rowell.....							363	17						1		1		
Russell.....								750								2		
Sagamore.....								3270								5	8	
Salmon.....								275									1	
Shasta.....								1705								4	4	
Silver.....								3543								5	5	
Somerville.....					3653			1010					6			3	7	
South.....								97	476							1	1	
Spring.....								752								2	3	
Spruce.....							650	5353						1	8		13	
Stark.....								874								2	3	
State.....								877								3	3	
Stevens.....								325								1		
Summer.....								1702								5	4	
Taylor.....								4755								7	4	
Titus.....							1011	67							1	1	2	

Union					2335	6755	319			2	13	2	7
Valley	364	1923	2096			246		1	1	2	7		11
Vine						39	340					2	1
Vinton						682					1		1
Walnut					522	3140	1122				6	4	6
Washington							351					2	
Water						736					2		2
Webster						3338					6		8
Welch avenue						10	292					1	
Weston						529					2		
Wilson			6137			10				11	1		1
Willow							550					2	
Woodbine						419					1		1
Woodland avenue						1212							3
Young						1879					2		2
WEST SIDE RIVER													
A						836					1		3
Abbott						133							
Adams						410					1		2
Allen						772	9					1	1
Alsace							801				3		
Amoskeag road			2922			14	10			2	1	1	1
Amory (north)						2342	27						3
Amory (south)						2836	47				4		7

SCHEDULE OF PIPES AND FIXTURES TO DECEMBER 31, 1902.—Continued.

STREETS.	Length and size of cement-lined pipe laid.		Length and size of cast-iron pipe laid.							Gates set.						Air valves.	Hydrants.
	20 in.		20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.		
	6 in.																
Avon.....									420						1		1
B.....									606						1		
Barr.....									260						1		
Bartlett.....							1801		18					1			2
Bath.....									517					1			2
Beaumont.....									3579					4			
Bedel.....									326								
Bennington.....									48					1			1
Bismarck.....									1036					1			1
Blaine.....									1573					3			3
Bowman.....									835	623				2	1		1
Boynton road.....							2739		2287					1	2		6
Bremer.....									336					1			
Bridge.....							580							1			
Brock.....									242					1			
C.....									637					2			2
Carroll.....									882					1			1
Cartier.....									3288					4			2

Charlestown ave.....	790	1	1	1	1
Cleveland.....	1482	1	2	1	1
Clinton.....	563	2	2	2	2
Colby.....	253	1	1	1	1
Columbus.....	283	1	1	1	1
Coolidge avenue.....	1140	1	1	1	1
Conant.....	1791	2	2	2	2
Cumberland.....	663	1	1	1	1
Dartmouth.....	703	1	1	1	1
Donahoe.....	451	1	1	1	1
Donald.....	963	1	1	1	1
Douglas.....	2080	4	4	4	4
Dover.....	622	2	2	2	2
Dubuque.....	3004	5	5	5	5
Dunbarton.....	1210	1	1	1	1
Erie.....	435	1	1	1	1
Essex.....	666	1	1	1	1
Ferry.....	1554	2	2	2	2
Forest.....	218	1	1	1	1
Fourth.....	223	1	1	1	1
Frederic.....	1004	1	1	1	1
Front.....	2345	32	32	32	32
George	391	477	1	1	1
Hilford.....	802	4	1	1	1

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1902.—Continued.

STREETS.	Length and size of cement-lined pipe laid.		Length and size of cast-iron pipe laid.							Gates set.							Air valves.	Hydrants.	
	20 in.	6 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.			
Glenwood.....									191										
Goffs.....									825								2		
Goffstown road.....									2434								2		
Granite.....						900	620		1009					2	1	3			
Green.....																1			
Hancock.....									1626							2			
Harriman.....									136										
Hevey.....									2426							5			
Harvel.....									50							1			
Highland.....									524							1			
Hiram.....									256							1			
Huntress.....									570										
Joliette.....									884							3			
Kearsarge.....									758							1			
Kelly.....									2734							3			
Laval.....									598							2			
Log.....									230										
Log back street.....									283							1			

BOARD OF WATER COMMISSIONERS.

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Main	10296	45	13	1	5
Marion		290		2	2
Mast		3849		3	8
Mast, new	1944	1821	1	2	5
McDuffie		527		1	2
McGregor	150	2161	1	3	3
McNeil		206		1	
Mill		586		2	3
Milford		2849		3	6
Milford Lane		232		1	
Monitor		504		1	
Monmouth		204			
Montgomery		1076		3	
Morgan		288		1	
Omega		643		1	1
Parker		5		2	
Piscataquog river	477	1048		1	
Prince		598		1	2
Putnam		658		2	2
Quincy		260		1	
Riddle		945		1	1
Rimmon		2491		4	
Robie		836		1	1
Rochelle		285		1	

West	20367	234	24719	16245	33446	35262	78996	311173	20017	19	21	39	46	106	655	60	12	768
Wilkins																		
Williams																		
Winter																		
Woodbury																		
Supply main*						3300							4					
Total	20367	234	24719	16245	33446	35262	78996	311173	20017	19	21	39	46	106	655	60	12	768

Length of force main from low service pumping station to reservoir, 7,130 feet.

[illegible][illegible]

*Elm to Main, from Valley.

1

DISTRIBUTION PIPES AND GATES LAID TO DECEMBER 31, 1902.

Size of pipe.	Cement-lined pipe.	Cast-iron pipe.	Gates.
20-inch diameter.....	20,367 feet.	24,719 feet.	19
14-inch diameter.....		16,245 "	21
12-inch diameter.....		33,446 "	39
10-inch diameter.....		35,262 "	46
8-inch diameter.....		28,996 "	106
6-inch diameter.....	234 feet.	311,173 "	655
4-inch diameter.....		20,017 "	60
	20,601 feet.	519,858 feet.	946

Cement-lined pipe 3.90 miles

Cast-iron pipe 98.46 miles

Total miles 102.36 miles

768 hydrants.

946 gates.

12 air valves.

Respectfully submitted.

CHARLES K. WALKER.

Uses for which Water is Supplied.

WATER FIXTURES, ETC.

12,560 families, 96 boarding houses, 16,218 faucets, 4,958 wash-bowls, 4,625 bath-tubs, 13,030 water-closets, 929 set tubs, 225 urinals, 4,464 sill-cocks, 3,045 horses, 221 cattle, 753 hydrants, 30 watering-troughs, 8 drinking fountains, 51 standpipes, 2 public urinals.

PUBLIC BUILDINGS.

1 Jail, 31 churches, 1 court house, 10 hose companies, 6 fire engines, 2 hook-and-ladder, 3 opera houses, 4 convents, 4 city hospitals, 5 cemeteries, 1 orphanage, 1 post-office, 1 city library, 6 banks, 9 hotels, 1 Masonic hall, 1 Odd Fellows' hall, 3 halls, Children's Home, Masonic Home.

SHOPS.

58 Barber, 11 wheelwright, 20 blacksmith, 10 carpenter, 2 tinsmith, 1 copper, 3 currying, 20 plumber and gas and water pipe, 14 paint, 3 gunsmith.

STORES.

5 Auction, 35 drug, 22 jewelry, 2 fur, 3 house-furnishing goods, 20 fancy goods, 1 wholesale paper, 5 wholesale produce, 24 dry goods, 12 candy, 1 cloak, 16 millinery, 3 tea, 9 furniture, 3 wholesale grocer, 107 grocery, 6 meal, 2 hardware, 34 boot and shoe, 11 stove, 17 gents' furnishing goods, 7 book, 1 leather and shoe finders, 3 music, 3 upholstery, 9 undertakers, 5 sewing-machine, 1 feather-cleaner, 1 rubber.

SALOONS

16 Dining, 7 billiard, 47 liquor

MISCELLANEOUS.

7 Clubrooms, 3 bleacheries, 35 laundries, 4 ice-houses, 10 photographers, 1 Mercy Home, 2 old ladies' homes, 1 soldiers' monument, 1 Turner hall, 4 fountains, 2 trust companies, 1 city farm, 3 depots, 9 greenhouses, 2 bandrooms, 26 bakeries, 2 waste, 2 business colleges, 36 schoolhouses, 1 battery building, 1 kitchen, 3 wardrooms, 1 gymnasium, 2 police stations.

MANUFACTURING ESTABLISHMENTS.

2 Hosiery mill, 1 silver-plating, 2 iron foundries, 2 dye-houses, 5 machine shops, 6 clothing manufactories, 9 harness shops, 1 cornice works, 1 brush shop, 9 carriage shops, 12 cigar factories, 1 brass and copper foundry, 1 locomotive works, 1 grist-mill, 1 silk-mill, 3 granite works, 1 electric light station, 4 sash and blind shops, 1 brewery, 8 shoe shops, 1 gas works, 4 slaughter-houses, 1 soap factory, 4 needle manufactories, 6 beer-bottling, 3 book-binderies, 1 paper-mill, 2 box-makers, 1 paper-box manufactory.

MARKETS.

5 Fish, 14 meat and fish, 4 meat, wholesale.

STABLES.

22 Livery, 1345 private.

OFFICES.

23 Dentists, 1 telephone, 2 telegraph, 31 coal, 1 gas, 1 electric, 2 express, 19 printing.

Material on Hand.

PIPE.				BRANCHES.			
24 feet 24-inch pipe.				3 double 6 on 10.			
8,500	"	20	" "	5	"	8	" 8.
140	"	14	" "	18	"	6	" 8.
1,140	"	12	" "	3	"	6	" 6.
1,320	"	10	" "	4	"	4	" 4.
8,088	"	8	" "	1	"	6x8	" 14.
1,944	"	6	" "	2 single 10 on 20.			
1,068	"	4	" "	1	"	14	" 14.
743	"	1	" "	1	"	10	" 14.
263	"	3-4	" "	1	"	6	" 14.
CLAMP SLEEVES.				1	"	4	" 12.
16 12-inch.				1	"	4	" 10.
120	10	"		8	"	6	" 8.
30	8	"		10	"	6	" 6.
130	6	"		1	"	12	" 14.
8	4	"		4	"	6	" 10.
WHOLE SLEEVES.				3	"	10	" 10.
2 20-inch.				16	"	8	" 8.
6	14	"		1	"	4	" 8.
6	10	"		QUARTER TURNS.			
8	8	"		4 8-inch.			
4	6	"		5 10 "			
2	4	"		6 6 "			
BENDS.				1 4 "			
2 20-inch Y.				PLUGS.			
1	20	"	1-16.	2 14-inch.			
1	14	"	1-8.	15 10 "			
1	12	"	2-8.	24 12 "			
2	10	"	1-8.	27 8 "			
5	8	"	offsets.	7 6 "			
1	10	"	"	24 4 "			
1	12	"	"	REDUCERS.			
5	6	"	"	1 20-inch to 14-inch.			
GATES.				2 14 " " 12 "			
13 8-inch bell.				2 12 " " 10 "			
1	12	"	"	8 10 " " 8 "			
3	10	"	"	2 10 " " 6 "			
6	4	"	"	8 8 " " 6 "			
8	6	"	"	4 6 " " 4 "			
1 14-inch spigot.				9 hydrants.			
8	6	"	"	414 pigs of lead.			
BRANCHES.				145 stop boxes.			
2 double 6 on 20.				80 curb cocks.			
1	"	8	" 14.	70 1-2 corp cocks.			
1	"	6	" 14.	116 3-4 " "			

REPORT

OF THE

STREET AND PARK COMMISSIONERS

TENTH ANNUAL REPORT OF THE STREET AND PARK COMMISSIONERS.

To His Honor the Mayor and City Councils of the City of Manchester, N. H. :

GENTLEMEN,—The tenth annual report of the Board of Street and Park Commissioners is herewith submitted, showing the work of this department during the year 1902.

OFFICE.

The following gives the receipts and expenditures for the year.

Receipts.

Received from Manchester Traction, Light & Power Co., on account paving Elm street . . .	\$4,534.86	
Received from Manchester Water Works for work done on Central street sewer	2,062.95	
Received from sundry sources	759.63	
		<hr/>
		\$7,357.44
Deposited with City Treasurer	\$7,341.68	
Cash paid for express and postage	15.76	
		<hr/>
		\$7,357.44
		<hr/>
Appropriation		\$3,500.00

Expenditures.

Commissioners' Salaries	\$1,800.00	
Clerical Services	957.50	
Carriage Allowance	450.00	
Office Supplies, books, etc.	109.53	
Telephone	19.70	
Incidentals	54.28	
		<hr/>
		\$3,391.01
Transferred to reserve fund		108.99
		<hr/>
		\$3,500.00

Inventory of City Property.

Office, including typewriter, furniture, etc	\$385.10
Divison No. 2, including horses, dumpcarts, sprinklers, crushers, tools, etc.	21,529.90
City Stables, storage sheds and shops	15,950.00
Lot of land on Franklin street	89,312.00
Pipe on hand	1,101.96
Division No. 4	10.00
Division No. 5	25.00
Division No. 7	303.88
Division No. 8	39.85
Division No. 9	22.10
Division No. 10	4,812.38
Stable, land, etc	2,150.00
Commons	557.50
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Total	\$136,199.67

List of Appropriations.

Street and Park Commission	\$3,500.00
Repairs of highways	\$25,000.00
Repairs of highways, sundry sources	303.35
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	25,303.35
New Highways	7,000.00
Watering streets	4,700.00
Paving streets	4,500.00
Macadamizing streets	10,000.00
Grading for concrete	3,500.00
New sewers	\$20,000.00
New sewers, Water works	2,062.95
New sewers, pipe	195.82
New sewers, boiler	125.00
New sewers, sundry sources	119.70
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	22,503.47
Scavenger service	18,000.00
City teams	7,000.00
Snow and ice	6,500.00
Bridges	6,000.00
Street sweeping	2,500.00
Repairs of sewers	5,000.00
Commons	4,500.00
Stark Park	1,000.00

STREET AND PARK COMMISSIONERS.

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Derryfield Park	500.00
South End Playground	50.00
Paving Elm Street	\$12,000.00
Paving Elm street, Manchester Street Railway	4,534.86
	<hr/>
	16,534.86
Paving Canal street	4,000.00
	<hr/>
Total	\$152,591.68

Expenditures.

Street and Park Commission	\$3,391.01
Repairs of highways	29,494.49
New highways	4,795.26
Watering streets	3,142.77
Paving streets	5,268.58
Macadamizing streets	6,415.39
Grading for concrete	4,889.37
New sewers	24,442.69
Scavenger service	17,231.02
City teams	6,990.76
Snow and ice	4,395.89
Bridges	6,258.38
Street sweeping	3,232.21
Repairs of sewers	5,744.44
Commons	4,258.13
Derryfield Park	589.65
Stark Park	1,020.91
South End Playground	40.10
Paving Elm street	16,534.08
Paving Canal street	4,221.06
	<hr/>
Total	\$152,557.69
Balance on hand	\$33.99

STREETS AND ROADS.

A large amount of work was done in repairing the roads in the outlying districts. On Hanover road there was used 3,168 loads of gravel and stone. The Manchester Street Railway, bearing a portion of the expense. Over 1,000 loads of gravel were used in repairing Brown avenue, and extensive repairs were made on the roads in East Manchester. Hooksett road was repaired its entire length and costly repairs were made on the streets and roads in West Manchester. The commissioners make the claim that the

roads in the suburban part of the city were never in better condition for the public travel than they are at the present time.

Amherst street was macadamized from Maple to Hall, Central street from Beech to Maple and Amherst street from Pine to Beech.

The following streets were re-covered with concrete: Amherst street, Elm street to Nutfield Lane, Amoskeag, west end of the bridge, Chestnut street from Manchester to Hanover, Hanover street from Union to Beech, Merrimack from Elm to Chestnut, Nutfield Lane from Hanover to Amherst, Union from Lake avenue to Laurel, Union street from Hanover to Lowell, West Merrimack street from Elm to Hampshire Lane, West street north of Douglass and West Bridge street between McGregor bridge and Canal bridge. Total number of square yards re-covered, 5,410.86 at a cost of \$2,686.76.

New work was put down on Chestnut street from Concord to Lowell and on Marion street from McGregor to Main. Total number of square yards 1,436.27 at a cost of \$1,077.20. The Marion street paving was put on a cement foundation similar to that used in the Elm street paving.

The work done upon the street and roads will be found in detail in the tables following.

Report of Division No. 2.

GEORGE W. CHENEY, AGENT.

SNOW AND ICE ACCOUNT.

Appropriation	\$6,500.00
EXPENDITURES.	
Labor, January	\$1,254.09
February	1,210.45
March	861.49
April	3.25
June	63.62
September	19.00
November	69.50
December	978.92
Total	\$4,460.32
Supplies	135.57
Total	\$4,595.89
Transferred to reserve fund	1,904.11
	<hr/>
	\$6,500.00

STREET AND PARK COMMISSIONERS.

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CITY TEAMS.

Appropriation		\$7,000.00
Paid for labor	\$3,234.25	
hay and grain	2,225.65	
hardware	418.76	
lumber	230.65	
carriage hire	62.00	
new harnesses and repairing old . . .	270.33	
gas	143.30	
water	101.57	
coal	41.15	
telephone	43.99	
plumbing	10.34	
veterinary	81.40	
wagon repairs	92.40	
incidentals	34.97	
	<hr/>	\$6,990.76
Transferred to reserve fund		\$9.24

STREETS TURNPIKED WITH ROAD MACHINE.

Auburn	1,100 feet
Amherst	1,000 "
Arlington	300 "
Bridge	1,000 "
Beacon	600 "
Brown avenue	7,500 "
Campbell	400 "
Cass	300 "
Central	1,100 "
Cheney Place	400 "
Derry	400 "
East High	200 "
Highland	200 "
Hall	800 "
Hooksett road	3,000 "
Laurel	250 "
Maple	400 "
Malvern	500 "
North River road	5,600 "
Union (north)	400 "
Nashua	200 "
Orange	1,000 "
Pearl	900 "

Russell	300 feet
South Beech	1,300 "
Titus avenue	800 "
Webster	800 "

Total 30,750 feet

Total 30,750 feet, or 5.8 miles.

Labor charged to repairs of highways.

NEW HIGHWAYS.

LOCATION.	Length in feet.	Cut or fill.	Labor.
Auburn, from Wilson west	300	Fill	\$75.00
Bay, from Carpenter to Clarke.....	800	"	450.00
Cedar, from Maple east.....	500	"	125.36
Walnut, north of Cedar	400	Cut	607.63
Totals	2,000		\$1,258.99

COBBLE GUTTER PAVINGS.

LOCATION.	No loads stone.	Square yards.	Labor.
Arlington, Nashua to Russell	16	266 6.9	\$21.00
Auburn, Chestnut to Beech.....	102	995 5.9	133.75
Bridge from Beech west	8	155 5.9	15.61
Beech, Salmon to Sagamore	5	116 6.9	32.40
Brook, Oak to Maple.....	13	126 6.9	26.50
Brook east of Chestnut	6	50	8.25
Clark and Union	5	41 6.9	5.25
Chestnut, Carpenter to Clark	7	64	6.30
Chestnut, south of Carpenter	4	30	11.60
Central, Belmont of Hall	24	233 3.9	27.20
Central, Belmont to Milton	8	157 1.9	27.20
Hooksett Rd. and Beech.....	3	41 6.9	6.00
Hanover back, Ashland to Lincoln.....	2	26 6.9	3.50
Manchester south back		159	70.75
Maple, Brook to Blodget	11	45 7.9	6.25
Merrimack, east of Hall.....	5	48 5.9	13.60
Nashua, Bridge to Pearl	27	263	25.25
Prospect and Linden	5	35 3.9	7.62
Pearl, Oak to Russell.....	20	194 4.9	25.25
Prospect and Oak	9	77 7.9	21.00
Russell, Orange to Myrtle	11	107	6.87
Russell, Pearl to Arlington	15	188	22.75
Orange and Russell.....	5	44 3.9	8.75
Orange and Linden.....	40	389	54.40
Sagamore and Beech.....	56	537 4.9	95.20
Union and Sagamore.....	5	48 5.9	13.60
Union, Manchester to Merrimack.....	2	13 3.9	4.00
Walnut from Bridge south	2	50	5.25
Webster and Walnut	9	84	10.20
Walnut, Bridge to Lowell.....	50	466 6.9	103.20
Webster, Walnut to Beech	2	9 7.9	3.25
Webster from Adams south	37	308	61.87
Webster, Liberty to Union	17	165 2.9	22.75
Totals	531	5,541	\$906.37

PAVING RELAID.

LOCATION.	Square yards.	Labor.
Elm south of Auburn	471 1-9	\$34 25
Russell and Prospect.....	100	51.50
Total.....	571	\$85.75

GRADING FOR CONCRETE.

LOCATION.	Length in feet.	Cut or fill.	Labor.
Ash and Blodget.....	300	Fill.	\$8.50
Auburn near Beech	50	Cut and fill.	10.50
Ash between Sagamore and Blodget.....	200	Fill.	25.00
Amherst above Beacon	300	"	9.75
Beech between Salmon and Sagamore.....	100	Cut.	15.25
Bay north of Clark.....	200	"	17.50
Bay north of Clark.....	200	Fill.	17.50
Maple, Brook and Blodget.....	550	Cut.	9.25
Prospect below Russell.....	100	"	15.00
Oak and Sagamore	200	Fill.	28.00
Union below Carpenter	100	Cut.	25.75
Walnut above Blodget.....	75	Fill.	6.00
Walnut corner Webster.....	200	Cut.	7.00
Webster corner Walnut.....	200	"	11.25
Total.....	2,775 ft.		\$206.25

FENCES.

LOCATION.	Length in feet.	Cost of material.	Labor.
Beech and Sagamore.....	44	\$1.18	\$3.00
Sagamore and Ash	44	1.18	3.00
Sagamore from Chestnut to Elm	250	6.75	9.80
Totals.....	338 ft.	\$9.11	\$15.80

EDGE STONES SET.

Amherst, Porter and Ashland	42 feet
Ash, Sagamore and Blodget	51 "
Adams and Webster	34 "
Auburn and Beech	32 "
Amherst and Belmont	223 "
Beech north of Sagamore	60 "
Brook east of Chestnut	144 "

Brook and Oak	16 feet
Belmont and Central	64 "
Bridge and Pine	64 "
Bridge and Ash	165 "
Bridge and Chestnut	16 "
Bridge and Weston	169 "
Beech and Salmon	252 "
Chestnut, Carpenter and Clarke	92 "
Chestnut near Carpenter	77 "
Chestnut and Concord	22 "
Central and Elm	245 "
Cedar, Maple and Lincoln	56 "
Central and Milton	48 "
Canal and Granite	312 "
Canal and Cedar	30 "
Elm west back, Central and Depot	85 "
Elm and Washington	66 "
East High and Smith	23 "
Grove and Union	24 "
Harrison, Elm and Chestnut	14 "
Hall and Central	17 "
Harrison and Albert	14 "
Harrison and Walnut	16 "
Jane and Lowell	16 "
Laurel and Beacon	15 "
Liberty and Webster	47 "
Lake avenue and Cypress	18 "
Lincoln and Spruce	177 "
Lowell and Hall	15 "
Laurel and Chestnut	76 "
Lincoln and Myrtle	185 "
Myrtle and Linden	17 "
Merrimack and Hall	17 "
Nashua	53 "
Oak and Sagamore	153 "
Orange and Beech	10 "
Orange, Washington and Union	75 "
Prospect and Linden	192 "
Pine and Webster	33 "
Pearl and Nashua	13 "
Pearl and Oak	15 "
Pearl and Myrtle	15 "
Prospect and Oak	15 "
Ray and Webster	16 "
River road and Webster	32 "
Russell and Prospect	277 "
Sagamore and Oak	17 "

STREET AND PARK COMMISSIONERS.

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Summer and Beech	25 feet
Sagamore, Russell and Smith	57 "
Sagamore and Union	16 "
Spruce, Union and Beech	50 "
Spruce and Beech	50 "
Union and Clarke	18 "
Webster and Walnut	16 "
Walnut, Brook and Harrison	61 "
Walnut, Sagamore and Blodget	50 "
Webster and Chestnut	16 "
Walnut and Webster	16 "
Wilson and Auburn	15 "

 4,362 feet

Labor, \$529.49.

EDGE STONES RE-SET.

Merrimack between Elm and back street	220 feet
Ray and Carpenter	220 "
Sagamore and Oak	44 "

 484 feet

Labor \$20.00.

NEW CESSPOOLS.

LOCATION.	No.	Cost of material.	Labor.
Amherst and Elm	2	\$41.53	\$13.20
Brook and Union	1	28.94	32.16
Beech between Union and Webster	2	40.10	38.50
Bridge and Nashua	1	17.49	8.50
Belmont and Central	4	69.26	30.00
Brook and Maple	1	27.47	8.90
Blodget and Ash	3	52.78	28.00
Blodget and Maple	1	20.19	
Concord and Chestnut	2	37.87	24.00
Calef road near Clarke Farm	1	16.88	9.00
Canal near Depot	1	41.25	14.00
Elm between Concord and Bridge	12	265.52	152.04
Elm east back, between Lowell and Concord	1	21.02	7.50
Elm between Bridge and Lowell	2	39.97	18.50
Elm between Lake avenue and Central	4	122.19	30.00
Elm and Merrimack	2	41.53	9.90
Elm east back, between Salmon and North	1	20.36	8.50
Elm west back south Granite	1	19.76	20.50
Lowell and Elm	1	21.56	5.25
Liberty and Webster	2	113.83	13.00
Lake avenue and Beacon	1	17.89	5.10
Hanover, Lincoln to Wilson	1	12.79	8.75
Jane and East High	2	49.52	55.75
Merrimack and Hall	1	19.29	9.00
Milton and Central	4	64.32	35.00
Nashua and Arlington	2	31.09	9.90
Nashua and Bridge	2	21.74	9.90
Oak and Pearl	1	20.19	7.00
Pearl and Chestnut	1	15.24	6.80
River road and Webster	1	16.89	6.00
Sagamore west of Russell	1	12.67	6.25
Union and Amherst	1	14.09	9.00
Union between Manchester and Merrimack	1	21.81	7.37
Walnut and Webster	3	65.47	38.50
Webster and Beech	3	47.26	39.00
Webster between Pine and Union	2	26.43	9.30
	72	\$1,516.19	\$746.57

REPAIRED CESSPOOLS.

Location.	No.	Cost of material.	Labor.
Arlington and Russell	3	\$19.09	\$10.20
Elm east back near Lake avenue	2	42.62	15.30
Lincoln and Spruce	1	3.96	3.50
Washington	1	12.71	8.25
	7	\$78.38	\$37.25

SCAVENGER.

This department is still using Putnam street for a dumping ground for the city waste. There is more or less complaint made notwithstanding the care taken to keep the dump covered with fresh sand daily. The con-

dition in this respect is unsatisfactory, but it is the best that can be done under the circumstances. The long haul from the central portion of the city makes the service very expensive.

SUMMARY.

Appropriation		\$18,000.00
Labor	\$13,594.60	
City Farm	2,499.96	
Repairs	1,136.46	
	<hr/>	\$17,231.02
Transferred to reserve fund		\$768.98

BRIDGES.

Extensive repairs were made on the old Amoskeag bridge this year. New stringers of Georgia pine were put in place of the old ones, which had become weak from decay and the roadway was double planked its entire length. The roof is in need of repair and should be attended to the coming season.

Extensive repairs were also made upon the roadway of McGregor bridge. The part treated with a concrete coating about two years ago has done good service. The board is of the opinion that the balance of the roadway should be covered with same material the coming year, thus protecting the planking from the weather and traffic.

A new steel bridge was erected upon new abutments over the stream near the mill dam on the Island Pond road to take the place of an old wooden structure, that had become unsafe for public travel.

The board would recommend that a new steel bridge be contracted for this season to take the place of an old wooden bridge now standing over the Cohas brook in the Harvey District, also the abutments should be rebuilt as they show signs of danger. In the near future a new bridge should be built over the Portsmouth railroad at south Elm street. There also seems to be a demand for a new bridge at Granite street over the North Weare railroad track.

Appropriation	\$6,000.00	
Overdrawn	229.08	
	<hr/>	\$6,229.08
American Bridge Co.	\$1,375.00	
Lumber	2,655.11	
Hardware	140.65	
Stone work	254.80	
Labor	1,803.52	
	<hr/>	\$6,229.08

PAVING ELM STREET.

There was laid on Elm street, including sidewalks on both sides, 16 feet in width, 8,761,832 square yards granite block paving. 6,475,491 square yards was charged to Elm street paving and the balance 1,299,341 square yards to grading for concrete.

The work was continued from the north side of Concord and Water streets to Bridge street and from the south line of Lake avenue to the north curb line of Central street at a total cost of \$16,534.08. Of this amount the Manchester Street Railway Company paid \$4,534.86.

The old square block paving taken from Elm street was used in paving Nutfield Lane from Concord street to Lowell street, Church street, Lowell street to Bridge street and Bridge street to Pearl street, Monadnock Lane from Pine street westerly, Hampshire Lane, Depot street to West Central street and Manhattan Lane from Lake avenue to Central street, making a total of 3,090,387 square yards.

SUMMARY.

Appropriation	\$12,000.00
Manchester Street Railway	4,534.86
	<hr/>
	\$16,534.86
Labor	\$2,025.88
Cement	1,376.64
Paving stones	9,741.55
Laying paving and cement	3,390.01
	<hr/>
	\$16,534.08
Transferred to reserve fund . . . . .	.78

Canal street was paved and new curbing put in from Granite street to Cedar, making a much needed improvement in this section of the city. Total amount of square yards laid 1,886,155 at a cost of \$4,221.57.

SEWERS.

It is impossible for the commissioners to build the sewers demanded by the citizens of the city, with the appropriations made by the city council for this purpose. At the present time some over six miles of sewers are ordered built by the city government, the building of which is not yet begun. It would require at least \$100,000 to complete this work.

There has been laid this year 10,288 feet of new sewers, at a total cost of \$20,973.08. Some of the most extensive jobs were situated as follows: Ash street south of Sagamore 380 feet; Ash street Sagamore northerly 241 feet; Pine and Blodgett streets 1,820 feet; Bridge to Weston 396 feet; Central, Hall to Milton, 435 feet; Maple street, Blodgett south, 240 feet;

Summer south back street, Union east, 160 feet; Taylor, Hayward to Young, 298 feet; Union, Carpenter northerly, 254 feet; Union east back street from Harrison to Blodget, 724 feet; east of McGregor to Beauport street in Amory, 1,046 feet; Bartlett, Wayne to Amory, 524 feet; Cartier to Coolidge avenue, 520 feet; George north of Milford, 350 feet; Mast street Rochelle avenue west, 414 feet; Thornton, Putnam northerly, 854 feet and Mast street, Clinton southerly, 194 feet.

In the Central street sewer it was necessary to blast through solid ledge almost its entire length. The same condition was found in the Union street sewer north of Carpenter street. The Water Works department bore a part of the expenses necessary to put in the trench of the Central street sewer and the water pipe was laid at the same time the sewer was built, materially reducing the cost of the sewer.

All the sewers north of Blodget street enter into a ten inch pipe and the result was that the street and cellars were flooded in times of a large rain fall. In order to relieve the situation, a large sewer of twenty-four inch pipe was connected with the Christian Brook sewer running south on Pine street to Blodget, then up Blodget street to Walnut, so now all the sewerage north of Blodget street is now diverted to the Christian Brook sewer. In time, when needed, the Pine street sewer can be extended to Prospect street thus cutting all sewers north of said street.

An important addition was made to the sewerage system of the city on the West Side, by building a twenty-four inch sewer from the Merrimack River at McGregor Bridge, up Amory street to Beauport street. This sewer taking in all the sewerage north of Amory street, formerly running into the Main street sewer and then to the Piscataquog river which is now diverted to the Merrimack river thus relieving the over-crowded Main street sewer.

The average cost per linear foot for the east side was \$1.992 and \$2.038 per linear foot for the west side, an average total cost per foot of all sewers for 1902 of \$2.101.

Length of sewers, east side, division No. 2	5,914 feet
Length of sewers, west side, division No. 10	4,374 "
Total	10,288 feet
Cost of sewers, east side, division No. 2	\$11,783 56
Cost of sewers, west side, division No. 10	9,189.52
Total	\$20,973.08
Average cost per foot, east side, division No. 2	1.992
Average cost per foot, west side, division No. 10	2.101

Average total cost per foot, \$2.038.

SUMMARY.

Total appropriation for new sewers	\$20,000.00
Overdrawn	1,940.25
Received from Manchester Water-Works:	
Central street, sewer	1,314.00
Work done	748.95
Received from other sources	440.52
	<hr/>
	\$24,443.72
Expended for new sewers, east side	\$11,783.56
Expended for new sewers, west side	9,189.52
Manchester Water-Works, work done	748.95
Material sold	440.52
Supplies on hand, city yard	2,281.17
	<hr/>
	\$24,443.72

The following table shows how the cost of new sewers has been divided.

SEWERS BUILT

LOCATION.	LIMITS.	Material.	Size in inches.	Length in feet, new.	Length in feet, relaid.	Manholes.
Albert	Harrison northerly.....	Portland.	10	74	.....	1
Ash	Blodget to south of Sagamore	Akron.	12	300	.....	.....
Ash	Blodget to south of Sagamore	Portland.	12	80	.....	1
Ash	Sagamore northerly	"	10	241	.....	1
Ashland	East High northerly.....	Akron.	10	200	.....	1
Blodget	Pine to Walnut.....	Portland.	18	670	128	5
Blodget	At Walnut	Akron.	12	.....	6	.....
Bridge.....	Beacon to Weston.....	"	10	237	.....	1
Bridge.....	Beacon to Weston.....	Portland.	10	159	.....	1
Carpenter	At Union	"	12	.....	40	.....
Central.....	East of Hall to Milton.....	Akron.	10	342	93	3
Church, North.....	Orange to Orange south back	"	10	102	.....	1
Hall.....	Lowell northerly	Portland.	10	86	.....	1
Harrison	Union to Union east back.....	Akron.	15	126	.....	1
Harrison	At Union east back	"	12	.....	4	.....
Manhattan lane.....	Central south back northerly	"	24	.....	66	.....
Maple.....	Blodget southerly	Portland.	10	186	54	1
Merrimack.....	East of Beacon easterly.....	Akron.	12	120	.....	.....
Pine	Christian Brook to Blodget...	Portland.	24	267	319	4
Pine	Christian Brook to Blodget...	Akron.	24	22	408	1
Summer south back...	Union easterly.....	Portland.	10	160	.....	1
Taylor	Hayward to Young.....	Akron.	12	298	.....	1
Union.....	Clarke northerly.....	Portland.	10	148	.....	1
Union.....	Carpenter northerly	"	12	254	.....	2
Union east back.....	Harrison to Brook	Akron.	12	.....	468	2
Union east back	Brook to Blodget	"	10	.....	256	1
				4072	1842	31

IN 1902.—EAST SIDE.

Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.	When finished.	Average cut in feet.	Nature of excavation.
	2		114.93	1.283			8.5	Sand and clay.
	10	2 }					8.	Gravel and boulders.
	4		557.90	1.468			7.5	Gravel and boulders.
	6		316.77	1.314			8.5	Gravel and ledge.
	1		326.38	1.631			8.	Gravel.
		2	1229.72	1.541			10.	Sand.
			7.50	1.25			9.5	Muck.
							8.	Hard gravel.
	1		464.67	1.173			8.	Hard gravel.
			120.00	3.00			8.	Gravel and ledge.
	14	4	2395.67	5.507			9.5	Ledge and gravel.
	5		128.31	1.258			9.5	Sand.
			123.32	1.434			7.	Gravel.
	2	2	157.50	1.25			8.5	Sand and muck.
			4.56	1.14			8.5	Sand
1	4		272.28	4.126			16.5	Sand
	7		212.42	.889			8.	Gravel and boulders.
1	1		128.15	1.06			5.5	Gravel.
	5	6 }					10.5	Sand.
	3	2 }	2520.40	2.481			10.5	Sand.
	3		113.97	.713			6.5	Made ground.
	3	6	306.37	1.028			8.5	Gravel.
	4		197.92	1.337			8.	Gravel.
	6	1	1275.27	5.02			8.5	Ledge and gravel.
	7	1	514.80	1.10			8.5	Sand and muck.
	5	3	294.75	1.15			9.5	Sand and muck.
2	93	29	11783.56	1.992				

SEWERS BUILT

LOCATION.	LIMITS.	Material.	Size in inches.	Length in feet, new.	Length in feet, relaid.	Manholes.
Amory	McGregor to Wayne	Portland.	24	475	.....	3
Amory	Main to Beauport.....	Portland.	20	288	.....	1
Amory	Main to Beauport.....	Akron.	18	46	.....	1
Amory	Alsace easterly	Portland.	12	278	.....	1
Bartlett	Wayne to Amory extension.....	Portland.	15	125	.....	1
Bartlett	Wayne to Amory extension.....	Akron.	15	125	.....	1
Bartlett	Wayne to Amory extension.....	Portland.	12	137	.....	.....
Bartlett	Wayne to Amory extension.....	Akron.	12	137	.....	1
Bremer	Coolidge avenue westerly.....	Akron.	10	32	.....	.....
Bremer	Dubuque to Dubuque east back	Portland.	10	20	.....	1
Bridge West.....	McGregor easterly	Portland.	24	125	.....	2
Cartier.....	Kelley to Coolidge avenue	Akron.	12	420	.....	3
Coolidge avenue.....	Cartier to Bremer.....	Akron.	12	100	.....	1
Coolidge avenue.....	Cartier to Bremer.....	Akron.	10	110	.....	1
Dubuque.....	Bremer southerly.....	Portland.	10	32	.....	.....
George	North of Milford northerly.....	Akron.	10	350	.....	1
Mast	Rochelle avenue westerly.....	Akron.	18	209	.....	1
Mast	Rochelle avenue westerly.....	Akron.	15	205	.....	2
McGregor	West Bridge to Amory	Portland.	24	112	.....	1
Thornton	Putnam to Sullivan.....	Portland.	12	466	.....	2
Thornton	Sullivan southerly	Portland	10	194	.....	1
Thornton	Sullivan southerly	Akron.	10	194	.....	1
West.....	Clinton to Granite	Akron.	10	.....	194	1
				4,180	194	27

IN 1902.—WEST SIDE.

Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.	When finished.	Average cut in feet.	Nature of excavation.
	2		\$2,174.00	\$4.577			8.5	Gravel.
			950.40	3.30			10.	Gravel and boulders.
			94.16	2.047			10.	Gravel and boulders.
	11	4	351.00	1.265			9.	Sand.
	4	1 }					6.5	Sand, muck and clay.
	5	1 }	612.50	2.45			6.5	" " " "
	5	2 }					8.5	" " " "
	4	1 }	492.38	1.796			8.5	" " " "
		3 }					7.5	Sand.
			88.85	1.708			8.	Sand.
	1		550.68	4.406			9.	Gravel and ledge.
		5 }					9.	Sand and made ground.
		2 }	728.00	1.40			5.5	" " " "
			115.14	.815			7.	" " " "
		2 }					8.	" " " "
	10		380.05	1.086			7.5	Sand and fine gravel.
	2	2	468.00	2.238			9.5	Gravel and coarse sand.
	6	2	369.88	1.804			8.5	Gravel and coarse sand.
			500.00	4.464			7.5	Sand.
	16	2	506.60	1.087			10.	Coarse sand.
	8	1 }					8.5	" "
	8	1 }	411.86	1.061			8.5	" "
	11	3	396.02	2.04			8.	Sand.
	93	32	\$9,189.52	2.101				

SIDEWALKS REPAIRED.

LOCATION.	Price per yard.	Square yards.	Total cost.
Belmont and Ashland.....	\$0.75	27.86	\$20.90
Elm and Central.....	.50	2.11	10.55
Elm and Gale avenue.....	.50	14.33	7.16
Elm and Lake avenue.....	.50	2.33	1.16
Elm and Depot.....	.50	12.91	6.46
Gates and Cartier.....	.50	1.94	.97
Granite.....	.25	28.88	72.20
Myrtle and Linden.....	.75	28.00	21.00
Pine and Bridge.....	.75	27.55	20.66
West Bridge.....	.50	30.17	15.08
Webster and Chestnut.....	.25	4.87	1.22
Webster and Adams.....	.25	1.62	4.05
Webster and Adams.....	.25	2.22	5.55
Webster and Pine.....	.25	5.87	1.47
Webster and Pine.....	.25	5.75	1.44
Webster and River road.....	.50	10.66	5.33
Sagamore.....	.50	19.35	9.67
Total.....		226.42	\$204.87

PAVING STREETS.

LOCATION.	Price per yard.	Square yards.	Total cost.
Chestnut, Concord to Lowell.....	\$.75	524.27	\$393.20
Marion, McGregor to Main.....	.75	912.	684.00
Total.....		1,436.27	\$1,077.20

PAVING REPAIRED.

LOCATION.	Price per yard.	Square yards.	Total cost.
Amherst, Elm to Nutfield Lane.....	\$.60	210.80	\$126.48
Amoskeag, west end of the bridge.....	.50	475.08	237.54
Chestnut, Manchester to Hanover.....	.50	564.61	282.30
Hanover, Union to Beech.....	.50	817.73	408.87
Maple, Laurel southerly.....	.50	11.11	5.55
Merrimack, Elm to Chestnut.....	.50	272.66	136.33
Nutfield Lane, Hanover to Amherst.....	.35	413.15	144.60
Union, Lake avenue to Laurel.....	.50	431.75	215.87
Union, Hanover to Lowell.....	.50	1297.29	648.64
West Merrimack, Elm to Hampshire Lane.....	.60	302.67	181.60
West, north to Douglass.....	.35	53.83	18.84
West Bridge, between end of McGregor bridge and Canal bridge.....	.50	560.28	280.14
Total.....		5,410.96	\$2,686.76

NEW CROSSINGS.

LOCATION.	Price per yard	Square yards.	Total cost.
Ash and Brook.....	\$0.50	17.78	\$8.89
Adams.....	.75	16.67	12.50
Amory and Hevey.....	.75	30.22	22.67
Amory and Hevey.....	.75	31.92	23.94
Beaumont and Wilton.....	.75	30.44	22.83
Beaumont and Wilton.....	.75	16.89	12.67
Brook and Ash.....	.75	30.00	22.50
Belmont and Hanover.....	.75	9.25	6.93
Central and Chestnut.....	.50	63.28	31.64
Chestnut and Central.....	.50	64.40	32.20
Carpenter and Elm.....	.75	33.63	25.22
Carpenter and Adams.....	.75	31.26	23.45
Cartier east back.....	.75	12.44	9.33
Coolidge avenue.....	.75	34.83	26.13
Coolidge avenue and Kelley.....	.75	41.15	30.87
Chestnut and Lowell.....	.75	19.41	14.55
Elm and Carpenter.....	.75	88.50	66.38
Fourth and School.....	.50	33.24	16.62
Gates.....	.75	29.28	21.96
Granite.....	.50	18.91	9.45
Hevey and Amory.....	.75	31.36	23.52
High and Union.....	.50	21.95	10.98
High, Pine and Union.....	.50	33.21	16.61
Kelley and Cartier.....	.75	30.22	22.67
Linden and Orange.....	.75	32.04	24.03
Orange and Linden.....	.75	29.67	22.25
River road and Webster.....	.75	27.55	20.66
Seneca lane and Chestnut.....	.75	34.84	26.12
School and Fourth.....	.50	17.78	8.89
Union and High.....	.50	43.02	21.51
Union and Green.....	.75	31.45	23.58
Wilton and Hanover.....	.50	2.22	1.11
Wilton and Beaumont.....	.75	29.00	21.75
Totals.....		\$1,017.81	\$684.41

CROSSINGS REPAIRED.

LOCATION.	Price per yard.	Square yards.	Total cost.
Adams and Webster.....	\$0.65	8.50	\$5.52
Blodgett and Union.....	.75	22.98	17.23
Blodgett and Walnut.....	.75	13.69	10.27
Blodgett and Pine.....	.75	5.33	4.00
Bridge and Pine.....	.50	36.36	18.18
Central south back.....	.50	16.53	8.26
Chestnut and Webster.....	.65	6.29	4.08
Hevey and Amory.....	.50	6.58	3.29
Kelley and Coolidge avenue.....	.75	10.89	8.17
Lowell and Chestnut.....	.75	16.95	12.71
McGregor and West Bridge.....	.50	5.33	2.67
Nutfield lane and Amherst.....	.35	16.44	5.75
Pine and Webster.....	.65	4.27	2.78
Pine and Pennacook.....	.75	23.97	17.98
Pine and Sagamore.....	.75	15.00	11.25
Pine and Bridge.....	.50	27.56	13.78
Union and Blodgett.....	.75	8.89	6.66
Webster and Chestnut.....	.65	6.25	4.06
Webster and Pine.....	.65	3.11	2.02
Totals.....		\$254.92	\$158.86

Complete works by the Robie Consolidated Concrete Company.

Report of Division No. 10.

GEORGE P. AMES, AGENT.

STREETS TURNPIKED WITH ROAD MACHINE.

Bath	280 feet.
Bremier	350 "
Coolidge Ave.	700 "
Cartier	392 "
Conant	952 "
Dunbarton Road	3,212 "
Dartmouth	1,400 "
Douglass	224 "
Donald	840 "
Eddy Road	4,974 "
Greewood Ave.	378 "
Goff	350 "
Green	210 "
Hancock	770 "
Kelley	1,932 "
Mast Road	1,225 "
Mammoth	560 "
Quincy	196 "
Second	9,239 "
Schiller	238 "
South Main	5,180 "
Straw Road	5,250 "
Schuyler	322 "
Winter	532 "

 39,706 feet

Total, 39,707 feet, or 7.5 miles.

Labor, \$194.40.

WHITEWASHING TREES AND FENCES.

Lime	\$1.90
Labor	73.50
	<hr/>
	\$75.40

WORK AT GRAVEL BANK.

Labor, May	\$70.00
Labor, June	74.12
	<hr/>
	\$144.12

CULVERTS.

	Material.	Labor.
Built two on Hooksett Road	\$165.73	\$124.75

FENCES.

LOCATION.	No. feet.	Cost of material.	Labor.
Allen	90	\$2.82	\$5.00
Amory	376	11.77	9.00
Boynton	190	6.54	12 00
Coolidge Ave.	1,008	29.54	20.25
Dunbarton Road	888	28.58	20.00
Goffstown Road	2,032	63.57	45.75
Hooksett Road	1,408	42.62	23.25
Janette Ave	176	5.93	4.75
Mast Road	336	9.02	12.00
Morgan	896	26.97	24.00
North Main back street	88	3.02	6.25
Straw Road	224	9.19	12.00
Schuyler	176	5.33	6.00
Winter	88	3.02	4.50
	7,974 feet.	\$247.95	\$234.75

REPAIRS OF HIGHWAYS.

STREETS TOP-DRESSED WITH GRAVEL AND STONE CHIPS.

LOCATION.	No. feet.	No. Loads.	Labor.
Amory	775	132	\$78.93
Amory and McGregor		30	36.00
Boynton	840	346	352.37
Beauport		7	5.00
Bedford		27	23.10
Cleveland	200	43	19.00
Donald	200	44	40.50
Hooksett road		76	110.00
Hevey	100	33	23.50
Hackett Hill		24	26.62
Milford	150	27	13.25
Mast road		17	15.00
North Main		95	129.25
Rimmon and Kelley		19	24.87
Rimmon	250	55	41.93
Rochelle avenue	200	43	1.50
Second		4	5.12
South Main		39	53.00
Sullivan	100	18	22.50
Third	584	189	201.00
Winter	500	40	62.50
Walker		6	6.15
	3,899	1,314	\$1,296.00

STREETS GRADED.

LOCATION.	No. feet.	Cut or fill.	Labor.
Amory	550	Cut.	\$46.00
Amory	225	Fill.	48.94
Boynton	240	Cut.	105.25
Cleveland	200	Fill.	19.00
Kelley and Cartier	175	Cut.	55.50
Milford	750	Fill.	65.00
McDuffy	200	Fill.	27.87
Rimmon	140	Cut.	20.96
Rimmon	110	Fill.	20.97
	2,590		\$409.49

STREETS PATCHED.

LOCATION.	No. Loads.	Labor.
A	5	\$7.23
Amory	20	45.10
Alsace	17	34.00
B	5	7.23
Blaine and Third	5	6.00
Dubuque	10	38.50
Joliette	31	48.50
Kelley	15	20.00
Mast road	10	13.13
Milford	23	18.50
Mast road	25	21.50
Mill	9	13.12
Riddle	16	18.00
Railroad		29.25
Sullivan	8	40.50
South Main	17	24.50
	216	\$385.06

NEW HIGHWAYS.

LOCATION.	Length and width.	Cut or fill.	Loads.	Labor.
Brock	{ 350x18x8-inches.	Cut.		
	{ 300x18x5-inches.	Fill.	96 gravel.	\$60.37
Wentworth	{ 225x28x3 feet.	Fill.		
	{ 550x8x2 feet.	Fill.		
	{ 150x8x1 feet.	Cut.		178.70
Turnpiked, 400 feet	1,575 feet.		96	\$239.07

CLEANING GUTTERS, CROSSINGS AND CESSPOOLS.

April	\$165.00	
May	183.00	
June	163.50	
July	185.62	
August	110.00	
September	134.50	
October	106.00	
November	274.00	
	<hr/>	\$1,321.62

EDGESTONES SET.

Amory and Hevey	32 feet
Amory	132 "
Alsace	142 "
Amory and Alsace	15 "
Amory and Rimmon	113 "
Beauport and Dutton	23 "
Beauport	50 "
Brock	79 "
Bartlett	100 "
Cartier and Adams	35 "
Cartier	50 "
Dartmouth	15 "
Hevey and Amory	114 "
Joliette	153 "
Kelley	332 "
Putnam	8 "
Rimmon	50 "
Second and School	15 "
School and Third	16 "
Third and Bath	31 "
Third and Ferry	16 "
Third and Walker	38 "
Wayne and B	18 "
Total	<hr/> \$1,567 feet
Labor, \$262.02.	

RE-SET.

Bridge	200 feet
Kelley and Cartier	15 "
	<hr/>
	215
Labor, \$15.25.	

BRIDGES.

	Labor.	Material.
Black Brook	\$55.25	\$65.43
Parker street	22.25	15.39
Total	\$77.50	\$80.82

NEW CESSPOOLS.

LOCATION.	Number.	Cost of material.	Labor.
Amory	1	\$19.35	\$10.50
Amory and Cartier	2	36.65	22.50
Amory and Hevey	2	41.85	24.25
Amory and Rimmon	1	23.85	15.00
Alsace and Kelley	1	18.72	10.00
Blaine	2	37.93	20.00
Bremier	2	37.90	20.00
Coolidge avenue	2	43.93	20.00
Cartier	2	40.28	28.50
Dubuque	4	79.56	51.25
Kelley	1	15.38	9.50
Milford and George	2	36.48	20.00
Mast Road	2	32.70	13.00
Montgomery	1	16.86	10.00
Marion	4	78.29	17.00
Rimmon	2	44.80	21.50
Schuyler	1	18.64	18.75
Sylvester	1	24.47	27.50
Third	3	56.75	34.50
West	2	33.93	20.00
	38	\$738.33	\$413.75

REPAIRED CESSPOOLS.

LOCATION.	Number.	Cost of material.	Labor.
Amory	1	\$1.33	\$2.00
Blaine	1	2.03	2.00
Beauport	1	7.87	1.75
Milford	2	2.76	5.00
Kelley and Cartier	1	2.75	3.00
Second and School	1	5.02	8.25
School and Turner	1	2.63	4.25
Third	3	19.44	15.00
Third and Walker	1	6.82	8.00
Wayne and McGregor	1		1.50
	13	\$50.65	\$50.75

PAVING.

LOCATION.	Length in feet.	Labor.
Amory west Rimmon.....	375	\$36.75
Amory west Jewett.....	350	42.25
Amory	150	2.00
Alsace	490	43.25
Adams	115	10.00
Brook	700	120.87
Blaine	1,575	212.75
Boynton	200	32.00
Cartier	100	10.00
Dartmouth	200	38.00
George	612	65.50
Hevey	48	10.00
Joliette	210	28.87
Kelley	320	54.75
Milford	731	160.00
Rimmon	775	38.25
Sylvester	500	106.00
Third	1,168	218.62
Wilton	100	18.00
West Bridge	300	38.25
Total	9,119	\$1,286.11

GRADE FOR CONCRETE.

LOCATION.	Length in feet.	Width in feet.	Cut or fill.	Labor.
Amory and Hevey	225	8	Cut.	\$15.75
Amory	340	8	Cut.	42.75
Amory	150	8	Fill.	36.00
Cartier	50	8	Cut.	9.89
Kelley and Cartier	250	8	Cut.	16.00
Milford	500	8	Fill.	16.12
Milford	240	8	Cut.	5.38
Putnam	200	8	Fill.	.....
Rimmon	100	8	Cut.	4.00
Sullivan	200	8	Fill.	.....
Wayne	200	8	Fill.	.....
Total	2,455	.....	.....	\$145.89

Division No. 4.

BYRON MOORE, AGENT.

Roads have been kept in good condition and generally repaired throughout the district.

The bridge over little Cohas Brook has been partly replanked.

Total amount expended for labor during year, \$293.74.

Division No. 5.

MARK E. HARVEY, AGENT.

Road graveled 3,100 feet
 Road turnpiked with road machine 2 1-2 miles
 Weston widened, 4 feet—200 feet in length.
 Bridge across Cohas brook has been replanked.
 Repaired one stone culvert on Nutt road.
 Re-built two culverts on Weston road, 12 x 15.
 Dug 400 feet of ditch for drainage of Nutt road.
 Cut bushes on 1 1-2 miles of road.
 Removed all loose stones from roads once each month during the season.
 Repaired water bars and made all general repairs where needed.
 All roads broken out after each storm.
 Total amount expended for labor during the year, \$525.48

Division No. 8.

A. J. GALE, AGENT.

Graveled Candia and Hanover road, used 3,168 loads.

Turnpike, graveled	15 loads used
Bald Hill, graveled	5 " "
Bridge Extension, graveled	30 " "
Lock road, graveled	20 " "
Proctor road, graveled	8 " "

Total number loads of gravel used, 3,246

Bridge street extension turnpiked	50 rods
Lock road extension, turnpiked	10 "
Bald Hill road, turnpiked	15 "
Turnpike road, turnpiked	150 "
Proctor road turnpiked	75 "

Total	300 rods
Hanover street, culvert cleaned and relaid	20 feet
Candia road, culvert cleaned and relaid	180 "
Lake Shore road, culvert cleaned and relaid	65 "
Turnpike road, 2 new culverts and one relaid	52 "

Total 317 feet

Laid 76 feet 12-inch pipe on Mammoth road in front of new house being built for Robert Stevens. Fifty loads of gravel used for grading.

26 feet pipe laid on Paige street.

General repairs have been made throughout the district, small stones removed from roads, bushes cut and roads broken out after storms during the winter months.

Total amount expended for labor during the year \$2,226.47.

Division No. 9.

LESTER C. PAIGE, AGENT.

Mammoth road graveled	29 rods.
Derry road graveled	28 "
Conant road, graveled	30 "
Paige road, graveled	16 "

41 loads of filling was used on Mammoth road.

1 Culvert on Morseville road 24x24-in. was taken up, cleaned, relaid and enlarged to 4x2-feet.

1 Culvert on Webster road was taken up cleaned and relaid.

90 loads of stone were dumped into Cohas Brook, to prevent it from undermining the road. Several loads of filling were then used and 8 rods of fencing put up.

Bushes were cut on Cohas avenue, Webster, Paige and Mammoth roads.

Small stones were removed from roads and all general repairs attended to throughout the division.

Roads were broken out after snow storms and kept in a passable condition during the winter months.

Total amount expended for labor during the year, \$593.00.

Division No. 7.

CHARLES FRANCIS, AGENT.

NEW CESSPOOLS.

LOCATION.	Number.	Cost of material.
Canton and Cedar	1	\$18.80
Canton and Cedar, manhole.....	1	20.03
Hospital avenue	2	26.58
Taylor and Hayward	2	39.10
Taylor and Young.....	2	39.10
Spruce.....	1	18.09
Valley at Shoe Shop.....	1	18.09
Young at Taylor	2	37.25
	12	\$217.04

GUTTERS PAVED.

LOCATION.	No. feet.	
Canton from Cedar to Auburn.....	450	.....
Hospital avenue	270	.....
Jones	800	.....
Silver west of Belmont.....	100	.....
Taylor.....	480	.....
	2,100	

GUTTERS REPAID.

LOCATION.	No. feet.	
Spruce west from Hall.....	125	.....
	125	.....

STREETS REPAIRED WITH ROAD MACHINE.

Cilley Road, Highland Park avenue, Longwood avenue, Paige street, Revere avenue.

NEW STREETS.

LOCATION.	Length in feet.	Cut or fill.
Clay from Cypress west.....		Cut.
Dix from Cypress to Taylor.....		"
Glenwood Ave		"
Hospital Ave.	135	Cut and fill.
Mammoth Road		Cut.
Silver from Belmont to Hall		"
Taylor.....	240	Cut and fill.
	375 ft.	.....

Bushes cut on :

Cilley Road, Cohas Ave., Huse Road, Porter St., Young St.

Candia Road widened 900 feet.

CULVERTS

Cohas Ave. at Downing's	60 ft.	15 in. pipe
Clay west of Wilson	50 "	plank.
Glenwood Ave.	30 "	12 in. pipe
Jewett, south Cilley Road	24 "	15 "
Mammoth Rd. south Lake Ave	34 "	12 "
Taylor at Somerville	22 "	10 "

CULVERTS RE-LAID.

Cilley Road	2 stone culverts
Candia "	3 " "
Dickey "	1 " "
Mammoth "	1 " "
	<hr/>
	7

EDGESTONES SET.

Canton and Cedar	15 feet
Hospital Ave. and Cypress	30 "
Jones and Dodge	175 "
Silver and Wilson	75 "
Spruce and Hall	40 "
Jones	27 "
Wilson and Silver	196 "
Wilson and Belmont	15 "
	<hr/>
	573

BRIDGES.

Hospital Ave.	Lengthened 12 x 12
Mill Dam	Replanked 100 x 18

STREETS GRAVELLED.

Candia Rd.	800 feet
Cohas Ave	360 "
Mammoth Rd.	1,900 "
Pond Road	2,000 "
	<hr/>
	5,060 feet

Total amount expended for labor during the year, \$8,121.74.

Parks and Commons.

JOHN FULLERTON, AGENT.

The public squares of the city have received the usual amount of careful attention. The seats were repaired and repainted and placed in position. The flower beds were renewed and shrubs and small trees set out to take the place of any that had died during the year. The small ponds were flooded and kept in good condition where the children enjoyed skating privileges. This latter takes the time of several men as the department maintain nine skating ponds or rinks, divided among the

various commons as follows: Merrimack, three; Park and Tremont, two each; Hanover and Concord, one each. Each pond has to be swept every day during the skating season and flooded often enough to keep the ice in proper shape.

At Stark Park several extensive improvements were made. A roadway was built 625 feet in length by 18 feet in width connecting the upper side of the park with the lower side, thus completing the circle around the Gen. Stark burying ground.

At Derryfield Park a drain 1,048 feet of sewer pipe was laid and two cesspools were built.

With a knowledge that these places were and must be the poor people's pleasure grounds, this board has sought to make the money appropriated for the purpose go as far as possible in securing that which would make them attractive and comfortable. We believe that in the past the money has been well and wisely spent. In the days of "high taxation" we realize that economy, which would rob these citizens who are the workers in our city, of that which means so much to them would be a mistake if not a wrong and we ask the city councils to be liberal as well as just in this appropriation for parks and commons for the coming year.

The following is a summary attending the parks and commons:

COMMONS.

Appropriation		\$4,500.00
Labor	\$2,811.66	
Water Works	736.00	
Grass seed	16.05	
Shrubs and flowers	335.80	
Lumber	22.30	
Hardware	183.97	
Lights	44.00	
Plumbing repairs	20.62	
Incidentals	87.73	
		<hr/>
		\$4,258.13
Transferred to reserve fund		\$241.87

DERRYFIELD PARK.

Appropriation		\$500.00
Overdrawn		89.65
		<hr/>
		\$589.65
Labor	\$569.49	
Insurance	6.25	
Repairs	12.71	
		<hr/>
		\$589.65

STREET AND PARK COMMISSIONERS.

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STARK PARK.

Appropriation		\$1,000.00
Overdrawn		20.91
		<hr/>
		\$1,020.91
Labor	\$1,008.99	
Grass seed	11.08	
Hardware . . . . .	.84	
	<hr/>	\$1,020.91

SOUTH END PLAYGROUND.

Appropriation		\$50.00
Labor	\$37.50	
Incidentals	2.60	
	<hr/>	40.10
		<hr/>
Transferred to reserve fund		\$9.90

We desire to thank His Honor, Mayor Clarke and each member of the city government, as well as all others for courtesies granted. To all our assistants, whatever their stations, we also extend thanks for the ability and interest they have shown in the work of the department.

Respectfully submitted,

HORACE P. SIMPSON,
GEORGE H. STEARNS,
BYRON WORTHEN,

Board of Street and Park Commissioners.

January 1, 1903.

REPORT OF ENGINEER'S DEPARTMENT.

REPORT OF THE ENGINEER'S DEPARTMENT.

OFFICE OF THE CITY ENGINEER,
MANCHESTER, N. H., December 31, 1902.

To the Honorable Mayor and City Councils:

GENTLEMEN,—The twenty-fourth annual report of the city engineer is herewith submitted, showing the expenditures and operations of the engineer's department for the year ending December 31, 1902.

OFFICE.

Seven assistants have been employed in this department during the year 1902; Harrie M. Young, George W. Wales, Harry J. Briggs, Alfred T. Dodge, Henry A. Worthen, Ella Barker Davis, stenographer and typewriter. Hallet R. Robbins from June 16 to September 24.

FINANCIAL.

WYCKOFF, SEAMANS & BENEDICT, BOSTON.

1901.			
Feb.	28.	To 1 typewriter tabulator	\$20.00
		1-2 dozen typewriter ribbons, (coupon book)	3.50
			<hr/> \$23.50
1902.			
Feb.	6.	1 card cylinder	2.92
		1 cylinder stop spring . . . . .	.24
		1 line space gauge . . . . .	.30
			<hr/> \$3.46
June	9.	1-2 dozen typewriter ribbons (coupon book) No. 1131	\$3.50

YAWMAN & ERBE MANUFACTURING COMPANY, BOSTON.

1901.			
Aug.	23.	To 1-24 drawer "A" card index cabinet, oak 6 x 4, F. R.	\$54.00
		1 M No. 200 "B" blue cards, 6 x 4, F. R.	6.70

Aug. 23.	To 2 M No. 200 "B" salmon cards, 6 x 4,		
	F. R.	6.70	
	1500 No. 200 "B" buff cards, 6 x 4,		
	F. R.	5.35	
	500 No. 200 "B" white cards, 6 x 4,		
	F. R. plain	1.35	
	1 M blank guides, 6 x 4, F. R. cut 4ths	7.00	
	3 sets No. 20 buff guides, 6 x 4, F. R.	.90	
	1 set No. 40 buff guides, 6 x 4, F. R.	.50	
		<hr/>	
		\$82.50	
	By cash January 7, 1901	62.77	
		<hr/>	\$19.73
1901.			
Jan. 14.	To 1 dozen No. 12 filing cases	\$2.50	
	1 dozen cabinet indexes	1.00	
1902.			
Jan. 4.	1500 No. 200 "B" plain cards, 6 x 4,		
	F. R.	\$3.60	
Feb. 8.	3000 No. 200 "B" buff cards, 6 x 4, per-		
	forated, horizontal ruling	7.20	
28.	250 blue guides, 6 x 4, F. R. cut 4ths		
	250 salmon guides, 6 x 4, F. R. cut 4ths		
	500 buff guides, 6 x 4, F. R. cut 4ths .	7.50	
Apr. 10.	1-36 drawer "A" oak cabinet with		
	Acme lock and two sliding shelves		
	6 x 4, F. R. (Spl)	76.00	
		<hr/>	
		97.80	
	Credit by 1-24 drawer "A" oak cabinet		
	returned	40.00	
		<hr/>	\$57.80

EUGENE DIETZEN COMPANY, NEW YORK.

1901.			
Sept. 21.	To 1-50 yard roll, 36-inch rapid blue		
	print paper	\$5.50	
	2 dozen No. 2364 thumb tacks	1.20	
		<hr/>	
		6.70	
	20 per cent discount	\$1.34	
	Credit by overcharge . . . . .	.55	
		<hr/>	
		\$1.89	
		<hr/>	\$4.81

PIKE & HEALD COMPANY.

1901.			
Nov. 9.	To 28 1-4 inch plugs at 2 cents	\$0.56	
	28 hours labor at 30 cents	8.40	
		<hr/>	\$8.96
1902.			
July 16.	15 1-4 inch plugs at 1 cent	\$0.15	
	14 hours labor, Worthen at 35 cents	4.90	
		<hr/>	\$5.05

E. A. STRATTON.

1901.			
Dec. 14.	2 reams No. 27 typewriter paper at \$1.10	\$2.20	
	6 erasers at 15c . . . . .	.90	
	1-2 dozen erasers . . . . .	.25	
		<hr/>	3.35
1902.			
May 31.	2 reams typewriter paper		2.20
Nov. 29.	2 D 12 1-4 units No. 298 book case	6.50	
	2 D 10 1-4 units No. 298 book case	6.00	
	2 D ex. tops	3.50	
		<hr/>	16.00

C. H. WOOD.

1901.			
Dec. 31.	To painting one street sign William street	\$0.35	
1901.			
	painting one street sign Cumberland street . . . . .	.35	
		<hr/>	\$0.70
1902.			
Mar. 18.	To painting two street signs, Massabesic street, Spruce street . . . . .		.70
	painting and varnishing 5 transit rods	\$1.50	
	1 transit box . . . . .	.50	
		<hr/>	\$2.00
June 21.	painting 25 street signs at 25c		6.25
Aug. 18.	painting 10 street signs at 25c		2.50
Dec. 27.	painting 17 street signs at 25c		4.25

J. ARTHUR WILLIAMS

1902.			
Jan. 14.	To printing 2,000 cards	\$3.00	
18.	1,500 blanks (3 lots)	3.75	
		<hr/>	\$6.75

Jan. 27.	To 1,200 blank "bench mark"	2.75	
Feb. 20.	printing 300 buff cards	3.00	
			<hr/>
Mar. 20.	1,000 envelopes	3.00	\$5.75
	2 blank book	4.00	
			<hr/>
			\$7.00

H. L. GOULD.

1902.

Jan. 20.	To weekly hydrant bench mark report for six months ending January 1, 1902 .		\$6.00
Dec. 27.	To weekly hydrant bench mark report for 12 months ending December 31, 1902		12.00

D. F. SHEA.

Jan. 22.	1 pair Storm King rubber boots . . .		\$3.50
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JOHN B. VARICK COMPANY.

1902.

Jan. 22.	To 2 handles at 33 cents	\$0.66	
	1 Lt. Mal. ferules08	
27.	1 1-2 Lt. Mal. iron at 8 cents . . . . .	.12	
	2 N. H. handles at 8 cents . . . . .	.16	
	2-36 inch Hick. S. H. handles at 15 cents . . . . .	.30	
	1-3 pound V. J. axe . . . . .	.60	
	2 Ex. axe handles at 20 cents . . . . .	.40	
Feb. 5.	1-3 dozen No. 12 harness hooks at \$1.00 . . . . .	.33	
	1-3 dozen No. 2 harness hooks at \$1.00 . . . . .	.33	
	1-2 dozen No. 6, harness hooks at \$1.50 . . . . .	.75	
	1 gross 1 1 2 x 12 wood screws . . . . .	.24	
	1-3 dozen door stops at 36 cents . . . . .	.12	
7.	1 wagon jack	1.25	
	1 set 4-inch Hatfield sheaves	1.00	
13.	1-2 dozen No. 604 ice chest fasteners at \$2.00	1.00	
	1 1-2 pairs 4 1-2 x 4 1-2 No. 731 butts at 25 cents . . . . .	.38	
	1 No. 37 hitching ring . . . . .	.12	
	12 foot Victor track at 4 cents . . . . .	.48	
14.	4 foot Victor track at 4 cents . . . . .	.16	
			<hr/>
			\$8.48

Feb. 23.	Credit by 1 1-2 pairs 4 1-2 x 4 1-2		
	No. 731 butts	\$0.38	
	1 No. 37 hitching ring . . . . .	.12	
		<hr/>	\$0.50
			<hr/>
Feb. 25.	1 pound N. Castile soap		\$7.98
May. 15.	1 1-2 pounds sheet lead at 7 cent . . .	\$0.11	0.18
	1 piece wire . . . . .	.05	
	paper bags . . . . .	.05	
17.	1 metallic scale, \$2.50 less 25 per cent .	1.87	
	postage . . . . .	.16	
		<hr/>	\$2.24
June 16.	1 dozen Venetian crayons . . . . .	.60	
	1-4 dozen blue leads at 75 cents . . . .	.19	
		<hr/>	\$0.79
July 1.	tacks and screws . . . . .		.10
Aug. 1.	1 gross blue Faber N. D. dragon chalk	\$4.00	
	1 gross red Faber N. D. dragon chalk	4.00	
		<hr/>	\$8.00
Sept. 17.	16 pounds 1 1-2 inch copper nails at 27 cents . .		4.32
Oct. 7.	2 drills and 1 punch . . . . .		.87

STAR STAMP COMPANY.

1902.

Jan. 28.	To 5 1-line stamps	\$0.75	
	1 oz. black ink . . . . .	.25	
		<hr/>	\$1.00

AMOSKEAG MANUFACTURING COMPANY.

Jan. 31.	To 1 brass mould for weight	\$4.95
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THE JOHN B. CLARKE COMPANY.

Jan. 31.	To binding 8 typewritten books (4 records committee on streets, 4 records committee on sewers) . .	4.00
Apr. 15.	To printing 300 reports (Engineer's Dept.) 51 pages and cover at 65 cents per page	33.80

C. L. BERGER & SONS, BOSTON, MASS.

Feb. 12.	To repairing, cleaning and adjusting one Berger & Sons Engineer's transit instrument as per memorandum enclosed, 24 1-2 hours labor at 60 cents	\$14.70
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Feb.	12.	To new transit box	7.00	
		3 tripod caps	1.50	
		bolt, nut and washer, like sample . .	1.30	
		adjusting pin . . . . .	.15	
		repairing, cleaning and adjusting Ber-		
		ger level, 17 hours at 60 cents . . .	10.20	
		2 adjusting pins . . . . .	.30	
			<hr/>	\$35.15
Feb.	5.	1 New York level rod	14.00	
	21.	6 split legs for tripods	18.00	
		box for packing50	
			<hr/>	\$32.50

R. K. HORNE.

Feb.	13.	To 1-4 dozen cuspidors at \$8.00	\$2.00
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MANCHESTER HARDWARE COMPANY.

Feb.	20.	To 1 dozen wire coat and hat hooks . . .	\$0.15	
		1 dozen brass screws17	
Mar.	6.	1-2 dozen brass screw hooks at 25 cents	.13	
		1-2 dozen brass screw hooks at 12 cents	.06	
	7.	1 dozen hooks . . . . .	.10	
	17.	2-3 dozen snaps at 50 cents . . . . .	.33	
		2 rings at 3 cents . . . . .	.06	
		2 rings at 2 cents . . . . .	.04	
		1-4 lb. copper rivets . . . . .	.10	
			<hr/>	\$1.14
Mar.	25.	To 2 snaps . . . . .	.10	
		1 sc. cord . . . . .	.07	
		2 rings . . . . .	.02	
		3 eyes . . . . .	.03	
		1 ball twine . . . . .	.10	
			<hr/>	\$0.32
Aug.	16.	4 lbs. seal brand paper at 3 1-2 cents . . . . .	.14	
Oct.	3.	1 B. S. drill 1-8-inch . . . . .	.23	

W. P. GOODMAN.

Feb.	28.	To 1 dozen erasers	\$0.60	
		3 erasers15	
		1 box typewriter paper90	
			<hr/>	\$1.65

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Apr.	3.	To 275 catalogue envelopes	1.65	
May	6.	1 typewriter ribbon50	
Sept.	8.	1 box typewriter paper90	
Oct.	8.	1 blank book . . . . .	.10	
			<hr/>	\$1.00
Dec.	10.	1 box typewriter paper . . . . .	.90	
	13.	1 gross falcon pens . . . . .	.55	
	17.	1 bottle paste . . . . .	.20	
			<hr/>	\$1.65

NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY.

To exchange service, including rental of				
telephone for 3 months ending March				
31, 1902		\$9.50		
tolls, November and December, 1901,				
-January 1902		2.34		
		<hr/>		\$11.84
rent for 3 months ending June 30, 1902,				
at \$38		\$9.50		
tolls for February, \$3 00; April, 40				
cents; May, 15 cents; June, 35 cents;				
July, 15 cents; August, 75 cents; Sep-				
tember, \$1.35		6.15		
		<hr/>		
		15.65		
By rent 1 month, June 1902, at \$38		3.17		
		<hr/>		\$12.48
To tolls October and November . . . . .				.83

W. & L. E. GURLEY, NEW YORK.

Mar.	4.	To 6 tripods points	\$3.00	
		prepaid express . . . . .	.25	
			<hr/>	\$3.25

UNION MANUFACTURING COMPANY.

Mar.	31.	To 3 dozen figures 6's nickle plated at 50c .	\$1.50	
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H. C. RANNO & SON.

Mar.	21.	To repairing harness	\$0.80	
	22	5 straps, slide loops and buckles	1.28	
			<hr/>	\$2.08
June	15.	Harness leather and tacks for shafts .		.35

KEYSTONE BLUE PAPER COMPANY, PHILADELPHIA.

Mar.	22.	To 1-50 yard roll 36-inch Med. parchment .	\$3.60	
		expressage . . . . .	.75	
			<hr/>	\$4.35

A. K. HOBBS.

Mar.	22.	To 3 yards corrugated rubber 18x108-inches		
		at 75c		\$2.25

THE HEAD & DOWST COMPANY.

Mar.	25.	To 17 feet 1-2-inch whitewood at 40 cents .	\$0.68	
		2 feet Michigan upper . . . . .	.18	
		machine work . . . . .	.20	
			<hr/>	\$1.06
July	19.	5000 grade stakes 2 feet long		
		1000 grade stakes 1 foot and 6 inches		
		long		
		300 grade stakes 4 feet long	\$52.00	

E. G. SOLTSMANN, NEW YORK.

Apr.	2.	To 1 roll 48-inch detail paper	\$2.80	
		1-2 gross Kohinoor pencils	5.00	
		1-2 dozen bottles Higgins ink	1.25	
			<hr/>	\$9.11

DAVID FLANDERS.

Apr.	5.	To nickeling 3 dozen street number figures		
		at 21 cents	\$0.63	
May.	20.	furnishing 100 dozen number figures		
		at 42 cents	42.00	
			<hr/>	\$42.63

KEUFFEL & ESSER COMPANY, NEW YORK.

Apr.	9.	To 1 only metal triangular scale No. 1642 .	\$2.05	
		postage07	
			<hr/>	\$2.12

J. G. JONES.

Apr.	18.	To delivering one filing cabinet35
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PNEUMATIC HAND STAMP COMPANY, BOSTON.

Apr. 26.	To 2, 1-line stamps at 30 cents	\$0.60	
	1 1-line stamp . . . . .	.40	
	1 special stamp	2.25	
	1 stamp from cut . . . . .	.55	
		<hr/>	
		3.80	
	less 25 per cent discount . . . . .	.95	
		<hr/>	
		2.85	
	routing wood cut . . . . .	.25	
	3 sorts metal B. type at 5 cents . . . .	.15	
		<hr/>	
		3.25	
	Mailing expense . . . . .	.15	
		<hr/>	
			\$3.40

TEMPLE & FARRINGTON COMPANY.

Apr. 26.	To binding one volume plans, 25 inch by 31 1-2 inch	\$7.00
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A. L. FRANKS & COMPANY.

1901.		
June 21.	To 1 electric fan	\$5.00

CHAS. A. HOITT & COMPANY.

July 26.	To 1 blacking cabinet	2.00	
	2 brushes for cabinet95	
		<hr/>	
			\$2.95

J. J. ABBOTT.

Oct. 23.	To 3-16 gallons shellac	\$0.75
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CARL STRAUSS, HOBOKEN, N. J.

Oct. 25.	To 1 German pencil pointer	\$7.50
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FRANK S. BODWELL.

Nov. 22.	To 100 stone bounds at \$1.40	\$140.00
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CHARLES H. SIMPSON.

Dec. 27. To use of horse 21 days to Dec. 9 at \$1.00 \$21.00

HARRIE M. YOUNG.

1901.

Dec.	2.	To cloth	\$0.30	
		glue . . . . .	.20	
	16.	paper . . . . .	.15	
	21.	street car fares	1.20	
	31.	note book . . . . .	.05	
			<hr/>	\$1.90

1902.

Feb.	5.	To expressage	\$0.90	
	12.	expressage . . . . .	.25	
	27.	pasters . . . . .	.10	
Mar.	1.	expressage . . . . .	.15	
	12.	mending boot . . . . .	.10	
			<hr/>	\$1.50
May	8.	street car fares . . . . .	.20	
	9.	street car fares . . . . .	.10	
	13.	street car fares . . . . .	.20	
	15.	street car fares . . . . .	.10	
	22.	street car fares . . . . .	.20	
	24.	street car fares . . . . .	.60	
			<hr/>	\$1.40
Aug.	12.	street car fares . . . . .	.20	
	18.	street car fares . . . . .	.30	
	16.	telephone . . . . .	.05	
			<hr/>	.55
Sept.	27.	street car fares		1.00
Oct.	25.	street car fares		1.00
Nov.	22.	street car fares . . . . .	.40	
		plumb bob string . . . . .	.10	
			<hr/>	\$0.50

GEORGE W. WALES.

1902.

Feb.	22.	Street car fares	\$0.75	
		lime . . . . .	.10	
		expressage paid	1.00	
			<hr/>	\$1.85
June	21.	street car fares	\$1.90	
		piece of brass05	
			<hr/>	1.95
July	26.	street car fares95	
		rubber tips24	
			<hr/>	1.19

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HENRY A. WORTHEN.

Dec. 27.	To plumb bob string	\$0.35	
	telephone05	
		<hr/>	\$0.40

HARRIE M. YOUNG.

Dec. 27.	To 156 days service at \$2.75 per day	\$429.00
	159 days service at \$3.12 per day	496.08
	3f 1-2 hours extra service at 36 2-3 cents per hour	11.52

GEORGE W. WALES.

Dec. 27.	To 156 days service at \$2.75 per day	\$429.00
	162 days service at \$3.12 per day	505.44
	158 1-2 hours extra service at 36 2-3 cents per hour	58.01

HARRY J. BRIGGS.

Dec. 27.	To 150 days service at \$2.50 per day	\$375.00
	158 days service at \$2.84 per day	448.72
	21 hours extra service at 33 1-3 cents per hour .	6.89

ALFRED T. DODGE.

Dec. 27.	To 156 days service at \$2.00 per day	\$312.00
	162 days service at \$2.27 per day	367.74
	15 hours extra service at 26 2-3 cents per hour .	3.96

HENRY A. WORTHEN.

Dec. 27.	To 156 days service at \$1.75 per day	\$273.00
	6 days service at \$1.98 per day	11.88
	151 days service at \$2.10 per day	317.10
	3 1-2 hours extra service at 20 cents per hour . .	.70
	4 1-2 hours extra service at 23 1-3 cents per hour	1.03

HALLET R. ROBBINS.

Sept. 24.	To 87 days service at \$1.75 per day	\$152.25
	1 1-2 hours extra service at 23 1-3 cents per hour	.34

ELLA B. DAVIS.

Dec. 27.	To 312 days service at \$1.60 per day	\$499.20
	1 hour extra service at 21 1-2 cents per hour . .	.21

SAMUEL J. LORD.

Dec. 31.	To first, second, third and fourth quarters, team hire	\$200.00
	first, second, third, and fourth quar- ters' salary	1,350.00
		<hr/> \$1,550.00
	Total expense engineer's department for 1902	<hr/> \$6,948.03

SUMMARY.

Appropriation to the engineer's department, for the year 1902	6,874.73
Expense of the engineer's department for the year 1902	\$6,948.03
Amount overdrawn	73.30
	<hr/>
	\$6,948.03 \$6,948.03

ORDERS.

Number of orders for:

Surveys, street lines, and grades	254
Sewer grades	60
Gutter grades	106
Curb grades	67
Corner curb grades	101
Paving grades	49
Pine Grove cemetery, grades, levels, and surveys . . .	36
Valley cemetery, levels, and surveys	5
Merrill yard lines	1
Stark Park grades, levels, and surveys	4
Lafayette Park, cross section	1
Profile levels	151
Petitions	122
Sewers and drains committee	9
Street committee	13
Special committees	5
Road hearings	15
Board of aldermen	14
Board of examiners of plumbers	12

Setting stone bounds	142
Street signs	54
Street numbers	98
Highland school batters	1
Wilson Hill engine house batters	1
Island Pond road bridge	5
Miscellaneous orders	27
Total	1,353

FIELD WORK.

Levels for profile for establishing grades (length in feet) . .	288,364
for sewer profiles (length in feet)	6,315
in Pine Grove cemetery (length in feet)	1,895
in Stark Park (length in feet)	5,245
Other levels (length in feet)	10,579
Total length of levels in feet	312,398
Cross section levels, Lafayette park (area in sq. feet)	90,500
Surveys of streets and street lines (length in feet)	47,153
for street numbers (length in feet)	4,289
in Stark park (length in feet)	3,666
miscellaneous (length in feet)	2,483
Total length of surveys in feet	57,591
Survey of gravel bank, Rochelle avenue (area in sq. ft.) . . .	69,898
Street lines marked on ground (length in feet)	19,253
Lot and avenue lines, Pine Grove cemetery (length in feet) . .	5,258
Lot and avenue lines, Valley cemetery (length in feet)	334
Lot and avenue lines, Merrill yard (length in feet)	65
Lines in Stark park (length in feet)	1,056
Lines for gutters (length in feet)	31,737
Lines for curbs (length in feet)	11,060
Lines for sewers (length in feet)	11,122
Other lines (length in feet)	2,187
Total length of feet in lines marked on the ground . .	82,072
Grades set for sidewalks (length in feet)	22,712
gutters (length in feet)	31,737
curbs (length in feet)	11,060
sewers (length in feet)	11,122
building streets (length in feet)	26,107
Pine Grove cemetery (length in feet)	2,968
Stark park (length in feet)	1,200
other purposes (length in feet)	1,000
Total length in feet of grades set	108,506

Number of new lots staked out in Pine Grove cemetery . . .	28
Number of ranges staked out in Pine Grove cemetery	16
Number of old lots restaked in Pine Grove cemetery	38
Number of old lots restaked in Valley cemetery	1
Number of old lots restaked in Merrill yard	1
<hr/>	
Total number of cemetery lots staked out	84
<hr/>	
Stone bounds set	142

BATTERS SET.

Island Pond road, bridge over outlet to Lake.
 Titus avenue, Highland School.
 Weston street, Wilson Hill Engine House.

OFFICE WORK.

PLANS AND PROFILES.

Beech, Salmon to Webster.
 Belmont, Hanover to Concord.
 Bridge, Belmont to east of Highland.
 Buzzell, Lowell to East High.
 Colby, West Hancock to Log.
 Cumberland, Monitor to Amory.
 Dartmouth, West Hancock to south of Frederick.
 Goffe, Wheelock to West Hancock.
 Hall, Green to Spruce.
 Hayward, Jewett to east of Porter.
 High East, Ashland to Belmont.
 Hooksett road, Webster to town line. Three plans.
 Jewett, Somerville to Hayward.
 Kelley, Beauport to Laval. Two plans.
 Log, Colby to South Main.
 Lowell, Ashland to Hall.
 Milford, Rochelle avenue to Sylvester.
 Old Falls road, Spruce to Massabesic.
 Prospect, Ash to Maple.
 Rockland avenue, Mast to Town line. Two plans.
 Schnyler, Main to Beauport,
 Silver, Wilson to Hall.
 Somerville, Wilson to Young. Two plans.
 Spruce East, Cypress to Canton.
 Summer, Wilson to Hall.
 Sylvester, Milford to Mast. Two plans.
 Taylor, Young to Valley.
 Trenton, Elm to Union.

Union, North to Webster.
Walnut, Amherst to Concord.
Warren, Bridge to Pearl.
West Hancock, Second to Wentworth.
Total plans and profiles, 38.

SEWER PLANS AND PROFILES.

Chestnut, Clarke to Carpenter.
Hevey east back, Kelley to Bremer.
High East, Hall to Belmont.
Main South, near town line.
Milford, Rochelle avenue to Bismarek.
Mill avenue, Brown avenue to Merrimack River.
Montgomery east back, Kelley to Bremer.
Plummer, Pine to Union.
Rochelle avenue, Mast to Milford.
Sylvester, Bismarek westerly.
Total sewer plans and profiles, 10.

NUMBERING PLANS.

Beech, Webster northerly
Belmont, Harrison to Blodget. Two plans.
Cass, Laurel to Merrimack.
Glenwood avenue, Mammoth road to east of Lovering. Five plans.
Hall, Harrison to Blodget. Two plans.
Hubbard, Amherst to Concord.
Revere avenue, Candia road to C. & P. R. R.
Riley avenue, Young to Hayward.
Stewart, Kingston to Plymouth.
Thornton, Wayne northerly.
Total numbering plans, 16.

MISCELLANEOUS PLANS.

Bartlett, Thornton and Wayne, land of E. Rochelle and B. Janelle.
Belmont, Dix and Howe, land of Agnes J. Phillips.
Bridge, location of gravel bank.
Brown avenue, Concord railroad and Merrimack river, land of Addie M. Mitchell.
Candia road, land of John N. Claffin.
Dickey road and Cohas avenue, land of Mary E. Dickey.
Franklin, West Merrimack and Pleasant, showing trees planted in Court house yard, November, 1871.
Goffstown road, Taggart and Maxwell, land of Taggart and Maxwell.

Hanover, Haverhill, Frances, Garvin, Bridge, James, Pollard, Eaton, Goodhue and Page, land of Samuel T. Page.

Malvern, Lowell southerly, land of Elizabeth Jackson.

Mammoth and Cilley roads, Page and Boston avenues and Francis and Lester streets, land of N. W. Paige.

Massabesic station, land of Boston & Maine railroad.

Merrimack, Laurel and Cass, land of Welch, Dodge & Laing.

Nutt road, Alpheus and Loring streets, land of Bodwell, Upton & Weston, for assessors.

Nutt, Weston and Porter roads, home farm of James A. Weston.

Pearl and Oak, land of Andrew Hood.

Pine Grove cemetery, changes in Swedish section. Two plans for trustees.

Plummer and Pine, estate of Andrew J. Young.

Sagamore and Smyth road, land of H. B. Sawyer.

Spruce East, land of Truman J. Perry.

Valley, Merrill, Hayward, Young, Wilson, and Hall, land of Elliott Manufacturing Company.

Young and Belmont, land of James Lynch.

Total miscellaneous plans, 23.

WORKING PLANS.

Adams, Beauport to Cartier. Profile.

Alsace, Amory to Kelley. Profile.

Amherst, Elm to Vine. Profile.

Amory, McGregor to Beauport. Two profiles.

Amory, Montgomery to Alsace. Profile.

Arlington, west of Russell to Warren. Two profiles.

Auburn, Chestnut to Maple. Three profiles.

Auburn, Cypress to Canton. Profile.

Bay, Clarke to Carpenter. Profile.

Beacon, Lake avenue to Merrimack. Profile.

Beacon, Manchester to Hanover. Profile.

Beauport, Wayne to Amory. Profile.

Belmont, Lake avenue to Laurel. Profile.

Blaine, Second to Hiram. Profile.

Blodget, Chestnut to Walnut east back. Sewer profile.

Blodget, Ash to Russell. Two profiles.

Bowman, A to Milford. Profile.

Bridge, Elm to Pine. Profile.

Bridge, Nashua to Warren. Profile.

Bridge West, Elm westerly. Profile.

Brook, Chestnut to Pine. Profile.

Canal, West Auburn to Granite. Profile.

Canton, Auburn southerly. Profile.

Cartier, Kelley to Coolidge avenue. Profile.

- Cartier, east back, Amory to Kelley. Profile
- Cedar, Union to Beech. Profile.
- Cedar, Maple to Lincoln. Profile.
- Central, Elm to Union. Two Profiles.
- Central, Hall to Cass. Profile.
- Central south back, Manhattan lane to Chestnut. Profile.
- Charleston avenue, Rochelle avenue to Brock. Profile.
- Chestnut, High to Pearl. Profile.
- Chestnut, Prospect to Christian brook. Sewer profile.
- Chestnut, Penacook to Salmon. Profile.
- Chestnut, Carpenter to Trenton. Profile.
- Church, Lowell to Bridge. Profile.
- Church North, Bridge to Pearl. Profile.
- Dubuque, Kelley to Bremer. Profile.
- Elm, Central to Lake avenue. Profile.
- Elm, Concord to Lowell. Profile.
- Elm, Lowell to Bridge. Profile of east side.
- Elm, Spring to West Bridge. Profile of west side
- Granite, Franklin to Canal. Profile.
- Green, Union to Beech. Profile.
- Hall, Lake avenue to Manchester. Profile.
- Hampshire lane, West Central to Depot. Profile.
- Hampshire lane, Mechanic to Spring. Two profiles.
- Hanover, Milton to Hubbard. Profile.
- Harvard, Wilson to Belmont. Profile.
- Hevey, Wayne to Amory. Profile.
- High East, and South. Design for corner curb.
- High East, Maple to Ashland. Profile.
- Hospital avenue, Massabesic to Cypress. Profile.
- Huntress, Bank to Prince. Profile.
- Jane, Lowell to East High. Profile.
- Joliette, Amory to Kelley. Profile.
- Jones, Nelson to Benton. Profile.
- Kidder Court, Elm westerly. Profile.
- Lafayette park, cross section.
- Lake avenue south back, Manhattan lane to Chestnut west back. Profile.
- Laurel, Belmont to Cass. Profile.
- Lowell, Maple to Malvern. Profile.
- Liberty, Salmon south back to North. Profile.
- Lincoln, East Spruce to Lake Avenue. Profile.
- Linden, Prospect to Harrison. Profile.
- Main South, Woodbury southerly. Profile.
- Main West back, Wayne to Amory. Profile
- Mammoth road, Concord & Portsmouth Railroad_northerly. Profile of west side.
- Mammoth road, Isolation hospital. Profile of driveway.

- Manhattan lane, Central to Lake avenue. Profile.
Maple, Shasta to south of Holly avenue. Profile.
Maple, Harrison to Blodget. Profile.
Marion, McGregor to Main. Profile.
Market, Elm to Franklin. Profile.
Merrimack, Hall to Belmont. Profile.
Merrimack West, Elm to Franklin. Profile.
Milton, Lake avenue to Laurel. Profile.
Monadnock lane, Chestnut to Pine. Profile.
Monadnock lane, Union easterly. Profile.
Myrtle, Russell to Hall. Profile.
Nashua, Bridge to Pearl. Profile.
Nelson, Hall road to Mammoth road. Profile.
Nutfield lane, Concord to Lowell. Profile.
Oak, Pearl to Orange. Profile.
Oak, Blodget to Sagamore. Profile.
Orange, Union to Walnut. Profile.
Orange, Beech to Ash. Profile.
Pearl, Oak to Russell. Profile.
Pearl south back, North Church to Chestnut. Profile.
Pennacook, Chestnut to Pine. Profile.
Pine, Central to East Spruce. Profile.
Pine, Myrtle south back to Christian brook. Sewer profile.
Pine Grove cemetery, Acacia avenue, Oxel to Woodside avenue. Profile.
Pine Grove cemetery, Beech and Greenbush avenue. Sewer profile.
Pine Grove cemetery, Oxel avenue, Roselund to Acacia avenue. Profile.
Pine Grove cemetery, Roselund avenue, Oxel to Woodside avenue. Profile.
Prospect, Oak to Russell. Profile of curb.
Prospect, Russell to Linden. Profile.
Russell, Arlington to Pearl. Profile.
Sagamore, Bay to Pine. Two profiles.
Sagamore, Walnut to Beech. Profile.
Second, Piscataquog river to M. & N. W. R. R. Profile.
Silver, Lincoln to Wilson. Profile.
Silver, Hall to Belmont. Profile.
South, Lowell to High. Profile.
Spruce East, Pine to Belmont. Four profiles.
Stark park, avenue south of monument. Profile.
Taylor, Young to Somerville. Profile.
Third, School to Walker.
Thornton, south of Sullivan to Putnam. Profile.
Titus avenue, Beech to Calef road. Profile.
Union, Bridge to Pearl. Profile.
Union, Harrison to Brook. Profile.
Union, Blodget to Sagamore. Profile.
Union east back, Harrison to Blodget. Sewer profile.

Walnut, Lowell to Bridge. Profile.
 Walnut, Webster northerly. Profile.
 Wayne, Main to Beauport. Profile.
 Webster, Chestnut to Union. Profile.
 Wentworth, West Hancock to Schiller. Profile.
 Weston, Concord to Bridge. Profile.
 William, Milford to Mast. Profile.
 Young, Taylor to Ainsworth avenue. Profile.
 Total working plans, 134.

TRACINGS.

Detail plan of grade stakes and hubs.
 Hooksett road, part 4.
 Pine Grove cemetery, lots and avenues. Four plans.
 Total tracings, 6.

BLUE PRINTS.

City of Manchester, seven sewer maps, four sheets each. Twenty-eight prints.
 City of Manchester, East side, sewer map. Two prints.
 City of Manchester, west side, sewer map. Two prints.
 City of Manchester, directory map. Three prints.
 Kennard estate, partition of, for Geo. H. Allen. Five prints.
 Old Grist Mill Park.
 Pine Grove cemetery, lots and avenues. Twelve prints.
 Total blue prints, 53.

SUMMARY.

Plans and profiles	38
Plans and profiles (sewer)	10
Numbering plans	16
Miscellaneous plans	23
Working plans	134
Tracings	6
Blue prints	53
Sewer book (sheets)	22
Sewer book (part sheets)	34
City treasurer's cemetery book	2
City clerk's highway book	31
Total	369

Six tracings showing city sewers have been brought up to date.

Maps brought to date, 5.

Plans brought up to date, 89.

Plans made for establishing grade on laid out streets, 178,512 feet.

Plans made for establishing grade on streets not laid out, 15,328 feet.

Total, 193,840 feet.

Lot owners looked up, 45,874 feet.

SEWER LICENSES.

At a meeting of the board of mayor and aldermen, November 19, 1897, the city engineer was instructed "to examine the books in his office and present to said board a list of property owners who had neglected to pay the license fee required by the city laws and ordinances for entrance to the city sewers."

The records were examined and a list compiled giving the name of the property owner, the location of the lot, the street frontage, and the license fee due upon each and every piece of occupied property within one hundred feet of a public sewer.

The said list was given in hand to the city clerk, as clerk of the board of mayor and aldermen.

The list comprised 1,017 names, and a notice was sent each one by the city clerk. A summarized statement of the ground covered to January 1, 1903, follows, viz:

Number of names January 1, 1898	1,017	
Paid during 1898	277	
Granted free during 1898	76	
Paid prior to 1898, located during year	121	
Paid during 1899	24	
Granted free during 1899	12	
Paid during 1900	2	
Not connected	1	
Paid during 1901	2	
Granted free during 1901	1	
Paid during 1902	2	
Paid prior to 1898, not located	60	
Paid previously	3	
Paid in part	1	
Covered by old permit	1	
Not recorded paid, receipts shown	5	
Recorded paid, no record of cash received	2	
Claims to have been paid, no record	1	
Licenses taken out, not paid	18	
Not heard from	408	
		<hr/>
Total number not settled January 1, 1903	499	
		<hr/>
	1,017	1,017
Number of licenses granted delinquent sewer enterers during 1902		2
Number of licenses granted new sewer enterers during 1902		91

Number free licenses granted new sewer enterers during 1902 . .	6
Total number of licenses granted during 1902	99
Amount of money recorded as collected from two delinquent sewer enterers during 1902	\$37.50
Amount of money recorded as collected from new sewer enterers during 1902	1,455.78
Amount of money recorded as collected on notes given in 1901, due in 1902	23.00
Total amount of money collected during 1902	\$1,516.28
All moneys are collected by the city clerk.	

STREET SIGNS.

Street signs on hand January 1, 1902	44	
Street signs ordered during 1902	54	
Street signs put up during 1902		47
Street signs on hand January 1, 1903		51
	98	98

The expense of street signs is charged to the appropriation for the engineer's department. (See financial report under Charles H. Wood.)

STREET NUMBERS.

Figures on hand January 1, 1902	287	
Figures ordered during 1902	1236	
Figures used during 1902		587
Figures on hand January 1, 1903		936
	1,523	1,523
Numbers assigned during 1902		196
Numbers replaced during 1902		19
Numbers changed during 1902		3
		218

The expense of street numbers is charged to the appropriation for the engineer's department. (See financial report under Union Manufacturing Company and David Flanders.)

STONE BOUNDS SET IN 1902.

Adams street and Webster street, northwest corner	1
Adams street and Webster street, northeast corner	1

Adams street and Appleton street, northwest corner	1
Adams street and Appleton street, northeast corner	1
Adams street and Appleton street, southwest corner	1
Adams street and Appleton street, southeast corner	1
Amory street extension, first angle west of Amory street, north side	1
Ashland street and Arlington street, southeast corner	1
B street and Prince street, northwest corner	1
B street and Prince street, northeast corner	1
Bay street and Clarke street, northwest corner	1
Bay street and Clarke street, northeast corner	1
Bay street and Carpenter street, southwest corner	1
Bay street and Carpenter street, southeast, corner	1
Beech street and Titus avenue, northwest corner	1
Beech street and Titus avenue, southwest corner	1
Belmont street and Harvard street, northwest corner	1
Belmont street and Harvard street, southwest corner	1
Belmont street and Silver street, northwest corner	1
Belmont street and Silver street, southwest corner	1
Belmont street and Amherst street, northeast corner	1.
Belmont street and Lowell street, northeast corner	1
Belmont street and Lowell street, southwest corner	1
Candia road, first angle east of Mammoth road, north side	1
Canton street and East Spruce street, northwest corner	1
Chestnut street and Trenton street, northwest corner	1
Chestnut street and Trenton street, northeast corner	1
Chestnut street and Trenton street, southwest corner	1
Chestnut street and Trenton street, southeast corner	1
Cypress street and Hospital avenue, northwest corner	1
Cypress street and Hospital avenue, southwest corner	1
Cypress street at angle near Auburn street, west side	1
Everett street and Clarke street, northwest corner	1
Everett street and Clarke street, northeast corner	1
George street and Charleston avenue, northeast corner	1
George street and Charleston avenue, southwest corner	1
Granite street, first angle west of Second street, south side	1
Granite street, second angle west of Second street, south side . .	1
Hall street and Silver street, northeast corner	1
Hall street and Harvard street, northwest corner	1
Hall street and Harvard street, northeast corner	1
Hall street and Harvard street, southwest corner	1
Hall street and Harvard street, southeast corner	1
Hall street and Bell street, northeast corner	1
Hall street and Grove street, northwest corner	1
Hall street and Grove street, northeast corner	1
Hall street and Grove street, southeast corner	1
Hall street and Green street, northeast corner	1

Hall street and Green street, southeast corner	1
Hall street and Summer street, northeast corner	1
Hall street and Summer street, southwest corner	1
Hall street and Auburn street, northwest corner	1
Hall street and Summer street, southeast corner	1
Hall street and Auburn street, northeast corner	1
Hall street and Auburn street, southeast corner	1
Hall street and Lowell street, northwest corner	1
Hall street and Lowell street, northeast corner	1
Hall street and Lowell street, southwest corner	1
Hall street and Lowell street, southeast corner	1
Hooksett road, third angle north of Webster street	2
Hooksett road, fourth angle north of Webster street, west side . .	1
Hospital avenue at angle south side	1
Huntress street and Bank street, northeast corner	1
Huntress street and Bank street, southeast corner	1
Huntress street and McDuffie street, northeast corner	1
Huntress street and McDuffie street, southeast corner	1
Huntress street angle between Prince street and McDuffie street .	2
Huntress street and Prince street, northeast corner	1
Huntress street and Prince street, southeast corner	1
Huntress street first angle north of Prince street, west side	1
Huntress street second angle north of Prince street	2
Joliette street and Kelley street, northwest corner	1
Lorraine street and Amory street, northwest corner	1
Lincoln street and East Spruce street, southwest corner	1
Linden street and Myrtle street, southwest corner	1
Main South street, first angle north of Second street	2
Main South street and School street, northeast corner	1
Main South street and Granite street, southeast corner	1
Mammoth road west side, center of Hayward street	1
Mammoth road, angle near C. & P. R. R., west side	1
Maple street and Amherst street, northwest corner	1
Milford place and Milford street, southwest corner	1
Milford place and Milford street, southeast corner	1
Milford place, Milford street southerly	4
Parker street, first angle north of bridge, east side	1
Ray street and Webster street, northwest corner	1
Ray street and Webster street, northeast corner	1
Ray street and Appleton street, northwest corner	1
Ray street and Appleton street, northeast corner	1
Ray street and Appleton street, southwest corner	
Ray street and Appleton street, southeast corner	1
Rochelle avenue and Charleston avenue, northeast corner	1
Russell street and Myrtle street, southeast corner	1
Second street and South Main street, northeast corner	1
Second street and South Main street, southeast corner	1

Taylor street and Young street, northwest corner	1
Taylor street and Young street, northeast corner	1
Titus avenue, Highland school lot, northwest corner	1
Titus avenue, Highland school lot, northeast corner	1
Titus avenue, Highland school lot, southwest corner	1
Titus avenue, Highland school lot, southeast corner	1
Union street and Titus avenue, northwest corner	1
Union street and Titus avenue, northeast corner	1
Union street and Titus avenue, southwest corner	1
Union street and Titus avenue, southeast corner	1
Union street and Clarke street, northwest corner	1
Walnut street and Webster street, northwest corner	1
Walnut street and Webster street, northeast corner	1
Walnut street and Webster street, southwest corner	1
Walnut street and Webster street, southeast corner	1
Weston street and Concord street, northwest corner	1
Weston street and Concord street, northeast corner	1
Weston street and Concord street, at angle south side	1
Weston street and Concord street, at Engine house lot N. W. corner	1
Weston street and Concord street, at Engine house lot N. E. corner	1
Weston street and Concord street, at Engine house lot S. E. corner	1
Weston street and Lowell street, northwest corner	1
Weston street and Lowell street, northeast corner	1
Weston street and Lowell street, southwest corner	1
Weston street and Lowell street, southeast corner	1
Weston street and East High street, northwest corner	1
Weston street and East High street, southwest corner	1
Weston street and Bridge street, southwest corner	1
Weston street and Bridge street, southeast corner	1
Wilson street and Auburn street, northeast corner	1
Wilson street and Auburn street, southeast corner	1
Wilson street and Summer street, northeast corner	1
Wilson street and Summer street, southeast corner	1
Wilson street and Green street, northeast corner	1
Wilson street and Green street, southeast corner	1
Wilson street and Grove street, northeast corner	1
Wilson street and Grove street, southeast corner	1
Wilson street and Bell street, northeast corner	1
Wilson street and Bell street, southeast corner	1
Young street, angle between Taylor street and Ainsworth avenue, north side	1

COAL-TAR PAVING.

Tables numbers 1, 2, 3, 4, 5, 6, 7, 8 and 9 give the location, number of square yards, price per square yard, total cost and date when measured of all coal-tar "concrete" laid during the year, the work being done by the Robie Consolidated Concrete Company, as follows: Table No. 1, street crossings (new); Table No. 2, street crossings (repairs); Table No. 3, sidewalks (new); Table No. 4, sidewalks (repairs); Table No. 5, street paving (new); Table No. 6, street paving (repairs); Table No. 7, gutters (new); Table No. 8, miscellaneous work; Table No. 9, summary of Tables 1, 2; 3, 4, 5, 6, 7 and 8.

GRANITE BLOCK PAVING.

Tables numbers 10, 11, 12, 13, 14, 15, 16, 17 and 18 give the location, square yards and date measured of all granite block paving laid during the year, the work being done by Soule, Dillingham & Co., and Cavanaugh Bros., also the street paving charged to the Street Railway Company, as follows: Laid by Soule, Dillingham & Co., Table No. 10, cement joints, concrete foundation (new); Table No. 11, cement joints, concrete foundation (repairs); Table No. 12, sand joints, sand foundation (new); Table No. 13, sand joints, sand foundation (repairs); Table No. 14, gutters. Laid by Cavanaugh Bros.; Table No. 15, sand joints, sand foundation. Charged to Street Railway Company: Table No. 16, cement joints, concrete foundation; Table No. 17, sand joints, sand foundation.

Table No. 18 is a summary of Tables 10, 11, 12, 13, 14, 15, 16 and 17.

ABSTRACT REPORT OF THE COMMITTEE ON STREETS FOR
THE YEAR 1902.

PERSONNEL OF THE COMMITTEE.

Alderman from ward 2, Fred K. Ramsey, chairman.

Alderman from ward 7, Samuel F. Davis.

Alderman from ward 9, Mederique R. Maynard.

Clerk of the committee, Samuel J. Lord.

Tables Nos. 19, 20, 21, 22 and 23 have been compiled to be used in the annual report of the engineer's department in lieu of citing the records of the committee on streets in detail. The tables give all the necessary information pertaining to the petitions that have been acted upon by the committee during the year 1902, also highways laid out and highways widened and straightened by the board of mayor and aldermen during the year.

Table No. 19 is a list of the petitions for new highways that have been acted upon by the committee during the year.

Table No. 20 is a list of the petitions for establishing grade that have been acted upon by the committee during the year.

Table No. 21 is a list of the miscellaneous petitions that have been acted upon by the committee during the year.

Table No. 22 is a list of highways that have been laid out by the board of mayor and aldermen during the year.

Table No. 23 is a list of the miscellaneous petitions that have been acted upon by the board of mayor and aldermen during the year.

Distances are given in feet.

ABSTRACT REPORT OF THE COMMITTEE ON SEWERS AND DRAINS FOR THE YEAR 1902.

PERSONNEL OF THE COMMITTEE.

Alderman from ward 9, Mederique R. Maynard, chairman.

Alderman from ward 5, Daniel A. Murphy.

Alderman from ward 6, Samuel M. Couch.

Clerk of the committee, Samuel J. Lord.

Tables Nos. 24, 25, 26, 27, 28, 29, 30, 31, 32 and 33 have been compiled to be used in the annual report of the engineer's department in lieu of citing the records of the committee on sewers and drains in detail. The tables give all the necessary information pertaining to the petitions, orders for sewers passed by the city councils, sewers built and not built up to January 1, 1903.

Table No. 24 is a list of all petitions that have been acted upon during the year, also the manner in which and date when each petition was acted upon and disposed of by the committee.

Table No. 25 is a list of sewers ordered in up to January 1, 1902, giving the distances built, distances built in excess of order, and the distances remaining unbuilt up to January 1, 1903.

Table No. 26 is a list of sewers ordered built during 1902, giving the distances built, distances ordered that are unnecessary, and the distances remaining unbuilt up to January 1, 1903.

Table No. 27 is a list of sewers built in 1902 not ordered by the board of mayor and aldermen.

Table No. 28 is a list of pipe removed where sewers have been relaid.

Table No. 29 is a list of sewers ordered in but not built up to January 1, 1903. This table is compiled from the first, second, fourth and eighth columns of Tables Nos. 25 and 26.

Table No. 30 is a summary of Tables Nos. 25 and 26.

Distances are given in feet.

SEWERAGE SYSTEM.

Table No. 31 gives the location, material, size and length of sewers, together with the number of manholes, lampholes, house Y's and cesspool Y's built during the year 1902.

Table No. 32 gives the material, size and length of all public sewers in the city of Manchester, January 1, 1903. This table further gives the total length (in feet) of each size of sewer and the number of manholes on each size, also the total length (in feet and miles) of each material.

Table No. 33 is a summary of the sewerage system by years, from January 1, 1880, to January 1, 1903. It gives the length in miles constructed and cost each year, also the average cost per mile for each year. The third column gives the number of miles constructed to date each year. It will be noted that January 1, 1880, there were 17.06 miles constructed, the cost not being recorded. January 1, 1890, there were recorded 2,003 house connections. Beginning with this date, columns four and five give the number of connections recorded each year and the total number recorded to date each year.

ABSTRACT REPORT OF THE BOARD OF EXAMINERS OF PLUMBERS.

In accordance with an act (chapter 59, Laws of 1899), passed by the New Hampshire state legislature entitled "An act authorizing the examination of plumbers and regulating the practice of plumbing and house draining," a board of examiners of plumbers was appointed by His Honor Mayor William C. Clarke of Manchester, N. H., as follows: William K. Robbins of the board of health, Christian L. Wolf, a master plumber, and Samuel J. Lord, city engineer, (William K. Robbins, president; Samuel J. Lord, clerk.)

Following is a statement of the expenditures of the board for the year 1902.

J. J. ABBOTT.

Jan.	1.	To 2 varnish brushes at 75 cents	\$1.50
	23.	3 3-4 lbs. paint . . . . .	.63
		3-4 lbs. bronze green . . . . .	.15
		1-16 gal. W. A. shellac . . . . .	.14
		1-8 gal. W. alcohol . . . . .	.19
	28.	12 1-2 lbs. lead . . . . .	.88
		1 lb. Venetian red . . . . .	.15
		1-4 gal. turpentine . . . . .	.17
		1-4 gal. R. oil . . . . .	.17
		1 can Vermilion G. C. P. . . . .	.45
	31.	1 can Vermilion G. C. P. . . . .	.45

Feb. 12.	To	1 can Vermilion G. C. P. . . . .	.45	
		1-2 gal. turpentine . . . . .	.33	
		3 3-4 lbs. asphaltum . . . . .	.75	
		12 1-2 lbs. lead . . . . .	.88	
Feb. 13.	To	1 lb. Indian red . . . . .	.25	
		1-16 gal. Japan . . . . .	.08	
17.		1 can Vermilion G. C. P. . . . .	.45	
		1-2 lb. lead . . . . .	.05	
			<hr/>	
			\$8.12	
		Credit by 12 1-2 lbs. lead . . . . .	.88	
			<hr/>	
			\$7.24	
		Discount on paint . . . . .	.15	
			<hr/>	
			\$7.09	
Apr. 26.	By	brush . . . . .	.75	
			<hr/>	\$6.34

PIKE & HEALD COMPANY.

1902.

Feb. 26.	To	2 gals. gasoline at 20 cents	\$0.40	
		23 lbs. block lead at 5 1-2 cents	1.27	
			<hr/>	\$1.67
Apr. 11.		10 lbs. wiping solder at 20 cents		2.00
July 10.		2 3-4 gals. gasoline at 18 cents . . . . .		.50

THE JOHN B. CLARKE COMPANY.

Apr. 13.	To	printing 300 reports (Eng. Department) 5 pages report of Board of Examiners of Plumbers at 65 cents		\$3.25
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R. M. STARBUCK, HARTFORD, CONN.

June 24.	To	1 set examination charts	\$8.00	
		1 modern plumbing, illustrated	3.00	
		1 questions and answers . . . . .	.75	
			<hr/>	11.75

THOMAS A. LANE COMPANY.

Nov. 26.	To	3 gals. gasoline	\$0.60	
		2 ft. 5-8 inch brass . . . . .	.55	
			<hr/>	\$1.15

E. A. STRATTON.

Dec. 27. To 2 reams paper No. 27 at \$1.10 \$2 20

SUMMARY.

Appropriated to the board of examiners of plumbers for the year, 1902	\$100.00	
Expenses for the board during year 1902	\$28.86	
Balance unexpended	71.14	
	<hr/>	<hr/>
	\$100.00	\$100.00
Renewal fees received for 74 plumbers' certificates at 50 cents (a renewal fee of 50 cents per certificate is required by state law)		\$37.00
Renewal fees received for 7 plumbers' licenses at 50 cents, (required by law)		3.50
Examination fee for five plumbers' licenses (required by law)		5.00
		<hr/>
Paid to city treasurer (the state law requires all fees to be paid into the city treasury)		\$45.50

Table No. 34 gives the name, address, and number of the application of each and every person making renewal application to the board for a plumber's certificate. This table also gives the class of certificate applied for (master or journeyman), the number of the certificate, date of renewal, and expiration of said certificate, also the renewal fee paid by the applicant.

Table No. 35 gives the name, address, and number of the application of each and every person making renewal application to the board for a plumbers' license. This table also gives the class of license applied for (master or journeyman), the number of the license granted, date of renewal and expiration of said license, also the fee paid by the applicant.

Table No. 36 gives the name, address, and number of application of each and every person making application to the board for a plumber's license. This table also gives the class of license applied for (master or journeyman), the number of the license granted, date of issue, and expiration of said license, also the fee paid by the applicant.

Table No. 37 is a summary of Tables Nos. 34, 35 and 36.

Table No. 1.
STREET CROSSINGS (New).—ROBIE CONSOLIDATED CONCRETE COMPANY.

STREET.	LOCATION.	Square yards.	At square yard.	Total cost.	Measure 1.
Albert.....	Harrison street, north side.....	26.38	80.75	\$49,903	Dec. 4, 1902
Amory.....	Hevey street, east side.....	31.922	.75	23,941	June 18, 1902
Amory.....	Hevey street, west side.....	10.222	.75	22,636	June 18, 1902
Beaumont.....	Wilton street, north side.....	30.444	.75	22,833	May 2, 1902
Beaumont.....	Wilton street, north side.....	27.866	.75	20,898	Oct. 20, 1902
Brook.....	Amherst street, north side.....	30.000	.75	22,500	May 20, 1902
Brook.....	Ash street, east side.....	33.631	.75	25,223	May 20, 1902
Carpenter.....	Elm street, east side.....	31.263	.75	23,447	May 20, 1902
Carpenter.....	Adams street, east side.....	29.277	.75	21,957	Aug. 20, 1902
Cartier.....	Gates street, north side.....	30.802	.75	23,101	Dec. 4, 1902
Cartier.....	Adams street, south side.....	16.666	.75	13,498	Aug. 20, 1902
Cartier east back.....	Adams street, south side.....	12.444	.75	9,333	May 20, 1902
Cartier east back.....	Kelley street, south side.....	19.406	.75	11,554	June 20, 1902
Chestnut.....	Lowell street, south side.....	29.688	.75	22,246	Oct. 20, 1902
Chestnut.....	Bridge street, north side.....	30.222	.75	22,665	Oct. 20, 1902
Chestnut.....	Bridge street, south side.....	34.833	.75	26,125	June 18, 1902
Coolidge avenue.....	At angle near Beaumont street.....	41.155	.75	30,866	June 18, 1902
Coolidge avenue.....	Kelley street, south side.....	64.233	.75	48,174	May 30, 1902
Elm.....	Carpenter street, north side.....	24.275	.75	18,206	May 30, 1902
Elm.....	Carpenter street, south side, E. side ear truck.....	31.360	.75	23,520	June 18, 1902
Hevey.....	Amory street, south side.....	30.222	.75	22,666	May 20, 1902
Kelley.....	Cartier street, east side.....	32.044	.75	24,633	May 20, 1902
Linden.....	Orange street, north side.....	16.888	.75	12,666	May 20, 1902
Main west back.....	Wilton street, north side.....	28.000	.75	21,000	Oct. 20, 1902
Myrtle.....	Linden street, west side.....	29.670	.75	22,262	May 20, 1902
Orange.....	Linden street, west side.....	27.555	.75	20,666	Oct. 20, 1902
Pine.....	Bridge street, south side.....	27.355	.75	20,666	Oct. 20, 1902
River road.....	West Webster street, north side.....	16.811	.75	12,008	July 19, 1902
Seneca lane.....	Chestnut street, east side.....	18.026	.75	13,519	June 20, 1902
Seneca lane.....	Chestnut street, west side.....	31.448	.75	23,580	Sept. 17, 1902
Union.....	Green street, north side.....	30.866	.75	23,164	Dec. 4, 1902
Wilton.....	Webster street, north side.....	27.466	.75	20,599	Dec. 4, 1902
Webster.....	Ray street, east side.....	29.244	.75	21,933	Dec. 4, 1902
Webster.....	Union street, west side.....	30.000	.75	22,500	Dec. 4, 1902
Webster.....	Walnut street, west side.....	29.000	.75	21,750	May 20, 1902
Wilton.....	Beaumont street, east side.....	29.000	.75	21,750	May 20, 1902
Total.....		\$1,011,062		\$758,278	

Table No. 2.
STREET CROSSINGS (Repairs)—ROBIE CONSOLIDATED CONCRETE COMPANY.

STREET.	LOCATION.	Square yards.	At square yard.	Total cost.	Measured.
Adams	Welster street, north side	8.499	\$0.65	\$5,524	July 19, 1902
Ash	Lowell street, north side	4.816	.50	2,408	Dec. 4, 1902
Ash	Brook street, north side	17.777	.50	8,888	May 20, 1902
Belmont	Hanover street, north side	9.244	.75	6,933	May 20, 1902
Blodgett	Pine street, east side	5.333	.75	3,999	Oct. 20, 1902
Blodgett	Union street, west side	22.977	.75	17,232	Oct. 20, 1902
Blodgett	Walnut street, west side	13.634	.75	10,263	Oct. 20, 1902
Bridge	Chestnut street, west side	4.333	.75	3,240	Oct. 20, 1902
Bridge	Pine street, east side	36.361	.50	18,180	Oct. 20, 1902
Central	Chestnut street, east side	30.888	.50	15,444	May 20, 1902
Central	Chestnut street, west side	32.400	.50	16,200	May 20, 1902
Central south back	Chestnut street, east side	16.533	.50	8,260	Sept. 17, 1902
Chestnut	Central street, north side	31.241	.50	15,622	May 20, 1902
Chestnut	Central street, south side	33.155	.50	16,577	May 20, 1902
Chestnut	Webster street, north side	6.286	.65	4,085	July 19, 1902
Fourth	School street, south side	33.244	.50	16,622	May 20, 1902
Hevey	Amory street, north side	6.577	.50	3,288	June 18, 1902
High	Between Pine street and Union street	33.218	.50	16,609	May 20, 1902
High	Union street, west side	21.955	.50	10,977	May 20, 1902
Kelley	Coolidge avenue, west side, south side car tracks	10.888	.75	8,166	June 18, 1902
Lowell	Chestnut street, east side	16.950	.75	12,712	June 18, 1902
Marion	McGregor street, west side	11.388	.75	8,541	Oct. 20, 1902
McGregor	West Bridge street, west side	5.333	.50	2,666	June 18, 1902
Merrimack	Pine street, west side	6.666	.50	3,333	Dec. 4, 1902
Nutfield lane	Amherst street, south side	16.444	.35	5,755	June 6, 1902
Pine	Bridge street, north side	27.555	.50	13,777	Oct. 20, 1902
Pine	Pennacook street, north side	12.444	.75	9,333	Oct. 20, 1902
Pine	Pennacook street, south side	11.527	.75	8,646	Oct. 20, 1902
Pine	Sagamore street, south side	15.000	.75	11,250	Oct. 20, 1902
Pine	Webster street, south side	4.272	.65	2,776	July 19, 1902
Prospect	Russell street, west side	6.880	.75	5,160	Dec. 4, 1902
School south back	Fourth street, east side	17.777	.50	8,888	May 20, 1902
Union	High street, north side	30.044	.50	15,022	May 20, 1902

Table No. 2.—Continued.
STREET CROSSINGS (Repairs).—ROBIE CONSOLIDATED CONCRETE COMPANY.

STREET.	LOCATION.	Square yards.	At square yard.	Total cost.	Measured.
Union	High street, south side.....	12.977	\$0.50	\$6.488	May 20, 1902
Union	Blodget street, north side.....	8.888	.75	6.666	Oct. 20, 1902
Webster	Chestnut street, east side.....	6.250	.65	4.062	July 19, 1902
Webster	Pine street, east side.....	3.111	.65	2.022	July 19, 1902
Wilson	Hanover street, south side.....	2.222	.50	1.111	May 20, 1902
Total		595.150		\$336.731	

Table No. 3.
SIDEWALKS (New).—ROBIE CONSOLIDATED CONCRETE COMPANY.

LOCATION.	LIMITS.	Square yards.	At square yard.	Total cost.	Measured.
Granite, north side.....	Across old gateway to City Yard	18.915	\$0.50	\$9.457	July 19, 1902
Total		18.915		\$9.457	

Table No. 4.
SIDEWALKS (Repairs.)—ROBIE CONSOLIDATED CONCRETE COMPANY.

LOCATION.	LIMITS.	Square yards.	At square yard.	Total cost.	Measured.
Bridge west, south side	Between McGregor bridge and McGregor street...	30.166	\$0.50	\$15.083	June 18, 1902
Cartier	Gates street north side, east end of crossing	1.944	.50	.972	Aug. 20, 1902
Cartier, west side	Opposite Adams street, south crossing	2.080	.50	1.040	Dec. 4, 1902
Central, north side	Franklin street to Hampshire lane	138.722	.35	34.680	Aug. 20, 1902
Dubouque, west side	Amory street, northerly	22.060	.35	7.700	July 19, 1902
Dubouque, west side	Amory street, northerly	98.222	.25	24.555	July 19, 1902
Elm	Depot street, northwest corner	12.916	.50	6.458	Aug. 20, 1902
Elm	Lake avenue, northeast corner	14.333	.50	7.165	Aug. 20, 1902
Elm	Lake avenue, southeast corner	2.333	.50	1.165	Aug. 20, 1902
Elm	Central street, northeast corner	1.222	.50	.611	Aug. 20, 1902
Elm	Central street, southeast corner	888	.44	394.88	Aug. 20, 1902
Franklin, east side	Central street, northerly	75.461	.25	18.865	Aug. 20, 1902
Granite, north side	West of old gateway to City Yard	28.880	.25	7.220	July 19, 1902
Harrison	Beech street, northeast corner	10.027	.50	5.013	Dec. 4, 1902
Harrison	Ash street, northeast corner	6.083	.50	3.042	Dec. 4, 1902
Lowell	Ash street, northeast corner	5.677	.50	2.838	Dec. 4, 1902
Lowell	Ash street, northeast corner	6.111	.50	3.055	Dec. 4, 1902
Maple	Pearl street, southeast corner	7.083	.50	3.541	Dec. 4, 1902
Pearl	Oak street, northeast corner	8.473	.50	4.236	Dec. 4, 1902
Pine	Bridge street, northeast corner	6.222	.50	3.111	Dec. 4, 1902
Pine	Bridge street, northwest corner	13.144	.25	3.361	Oct. 20, 1902
Pine	Bridge street, southeast corner	5.333	.25	1.333	Oct. 20, 1902
Pine	Bridge street, southwest corner	7.522	.25	1.880	Oct. 20, 1902
Pine	Walnut street, northeast corner	4.636	.25	1.166	Oct. 20, 1902
Prospect	West of Russell street	10.872	.50	5.435	Dec. 4, 1902
Prospect, north side	East of Russell street	55.155	.50	27.577	Dec. 4, 1902
Sagamore, south side	Chestnut street, northeast corner	19.355	.50	9.670	Oct. 20, 1902
Webster	Adams street, northeast corner	4.866	.25	1.216	July 19, 1902
Webster	Adams street, northeast corner	2.222	.25	.555	July 19, 1902
Webster	Pine street, northeast corner	1.622	.25	.405	July 19, 1902
Webster	Pine street, southwest corner	5.750	.25	1.437	July 19, 1902
Webster	Ray street, east crossing	5.866	.25	1.466	July 19, 1902
Webster, south side	Ray street, east crossing	3.230	.50	1.660	Dec. 4, 1902
Webster, West	River road, northeast corner	10.655	.50	5.327	July 19, 1902
Total		629.491		\$127.435	

Table No. 5.

STREET PAVING (New.)—ROBIE CONSOLIDATED CONCRETE COMPANY.

LOCATION.	LIMITS.	Square yards.	At Square yard.	Total cost.	Measured.
Chestnut.....	Concord street to Lowell street.....	524.271	\$0.75	\$393.203	June 20, 1902
Marion.....	Main street to McGregor street.....	912.000	.75	684.000	Oct. 20, 1902
Marion.....	East of McGregor street, west line.....	13.333	.75	9.990	Oct. 20, 1902
		1,449.604		\$1,087.193	

Table No. 6.

STREET PAVING (Repairs.)—ROBIE CONSOLIDATED CONCRETE COMPANY.

LOCATION.	LIMITS.	Square yards.	At Square yard.	Total cost.	Measured.
Amherst.....	Elm street to Nutfield lane.....	210.800	\$0.60	\$126.480	Sept. 17, 1902
Amoskeag.....	West end of Amoskeag Bridge.....	475.080	.50	237.540	June 6, 1902
Bridge, West.....	Between McGregor bridge and canal bridge.....	500.277	.50	250.138	Aug. 20, 1902
Chestnut.....	N. rail car track Manchester St. to N. of Hanover.....	564.605	.50	282.302	May 20, 1902
Hanover.....	Union street to Beech street.....	817.733	.50	408.866	May 20, 1902
Maple.....	Laurel street southerly,.....	11.111	.50	5.555	June 18, 1902
Merrimack.....	E. line Elm street to E. line Chestnut street.....	272.633	.50	136.331	May 20, 1902
Merrimack, West.....	Elm street to Hampshire lane.....	302.672	.00	181.000	Sept. 17, 1902
Nutfield lane.....	Hanover street to Amherst street.....	413.152	.35	144.003	June 6, 1902
Union.....	Between Lake Avenue and Laurel street.....	431.750	.50	215.875	June 18, 1902
Union.....	S. line Hanover street to S. line Lowell street.....	1,297.286	.50	648.643	May 20, 1902
West.....	Douglas street, northerly.....	53.833	.35	18.841	Aug. 20, 1902
		5,410.962		\$2,686.774	

Table No. 7.
GUTTERS (New.)—ROBIE CONSOLIDATED CONCRETE COMPANY.

LOCATION.	LIMITS.	Square yards.	At Square yard.	Total cost.	Measured.
Lincoln	Lincoln school house yard	49.111	\$0.65	\$31.922	July 19, 1902
Prospect, north side	Russell street westerly	39.533	.35	13.836	Dec. 4, 1902
Webster	Webster school house yard	6.800	.50	3.400	July 19, 1902
		95.444		\$49.158	

Table No. 8.
MISCELLANEOUS.—ROBIE CONSOLIDATED CONCRETE COMPANY.

LOCATION.	DESCRIPTION.	Square yards.	At Square yard.	Total cost.	Measured.
Ash street	Ash street school house yard, walks	834.297	\$.25	\$208.574	July 19, 1902
Dubque street	Rimmon school house yard, walks	184.305	.50	92.152	July 19, 1902
Franklin street	Franklin school house yard, walks	44.527	.50	22.263	Aug. 20, 1902
Franklin street	Franklin school house yard, walks	36.444	.25	9.111	Aug. 20, 1902
Goffe's Falls	Goffe's Falls school house yard, walks	133.666	.50	68.330	Sept. 17, 1902
Lake avenue	Merrimack Engine house, basement	28.722	.50	14.361	July 19, 1902
Lake avenue	Merrimack Engine house, driveway	11.111	.50	5.555	July 19, 1902
Lincoln street	Lincoln school house yard, walks	13.555	.50	7.777	July 19, 1902
Lincoln street	Lincoln school house yard, walks	3.666	.25	0.916	July 19, 1902
Pine Grove cemetery	Linnet ave., Netherland ave., southerly drive'y	101.000	.50	50.500	May 28, 1902
Pine Grove cemetery	Chessom avenue, Brown ave. easterly driveway	283.316	.50	141.658	May 28, 1902
Pine Grove cemetery	Chessom ave., Linnet ave., to Greenbush ave., driveway	24.555	.50	12.277	May 28, 1902
Prospect street	At Dunlap's and Edgerly's driveways	94.311	.65	61.302	Dec. 4, 1902
Spring street	Spring street school house yard, walks	31.500	.50	15.750	Aug. 20, 1902
Spring street	Spring street school house yard, walks	7.666	.25	1.916	Aug. 20, 1902
Webster street	Webster school house yard, walks	274.946	.25	68.736	July 19, 1902
		2,112.587		\$781.178	

Table No. 9.

SUMMARY OF TABLES Nos. 1, 2, 3, 4, 5, 6, 7 and 8.

DESCRIPTION.	CONTRACTORS.	Table number.	Square yards.	Cost.
Street crossings, new.....	Robie Consolidated Concrete Co.	1	1,011.062	\$758,278
Street crossings, repairs.....	"	2	595.150	336,731
Sidewalks, new.....	"	3	18,915	9,457
Sidewalks, repairs.....	"	4	629,491	127,485
Street paving, new.....	"	5	1,449,604	1,087,193
Street paving, repairs.....	"	6	5,410,962	2,686,774
Gutters, new.....	"	7	95,414	49,158
Miscellaneous.....	"	8	2,112,587	781,178
		.....	11,323,215	\$5,836,254

STREET PAVING LAID BY SOULE, DILLINGHAM & CO.

Table No. 10.

GRANITE BLOCKS, CEMENT JOINTS, CONCRETE FOUNDATION.

LOCATION.	LIMITS.	Square yards.	Measured.
Elm*	Lake avenue to Central.....	2,298.826	Aug. 19
Elm*	Head of Depot.....	68.933	Aug. 19
Elm*	Foot of Lake avenue.....	60.500	Aug. 19
Elm*	Foot of Central.....	58.555	Aug. 19
Elm*	Head of West Central.....	60.444	Aug. 19
Elm†	Concord and Water to Lowell.....	2,059.300	Aug. 19
Elm§	Foot of Lowell.....	62.906	Aug. 19
Elm	Head of Spring (flagging).....	61.790	Aug. 19
Elm*	Lowell to West Bridge.....	2,767.365	Aug. 19
Elm§	Foot of Washington.....	32.861	Aug. 19
Elm§	Head of Kidder court.....	6.533	Aug. 19
		7,538.013	

*24 blocks per square yard.

†35 blocks per square yard.

§24 and 35 blocks per square yard.

Table No. 11.

GRANITE BLOCKS, CEMENT JOINTS, CONCRETE FOUNDATION.
(Repairs).

LOCATION.	LIMITS.	Square yards.	Measured.
Elm	Central northerly	131.718	Aug. 19
Elm	South of Water	2.000	Aug. 19
		133.718	

35 blocks per square yard.

Table No. 12.

GRANITE BLOCKS, SAND JOINTS, SAND FOUNDATION.

LOCATION.	LIMITS.	Square yards.	Measured.
Central So. back	Manhattan lane easterly.....	23.663	Aug. 26
Church	Lowell to Washington.....	452.721	Aug. 19
Church	Washington to Bridge.....	345.411	Aug. 19
Church North.....	Bridge to Pearl.....	448.603	Aug. 19
Hampshire lane	Depot to West Central.....	333.646	Aug. 19
Lake ave. S. back	East of Manhattan lane easterly.....	175.488	Aug. 26
Manhattan lane.	Lake avenue to Central.....	398.045	Aug. 26
Monadnock lane	Pine westerly.....	370.757	Aug. 19
Nutfield lane.....	Concord to Lowell.....	455.775	Aug. 19
Pearl south back	North Church easterly.....	86.278	Aug. 19
		3,090.387	

Old blocks taken from Elm street, 9 to the square yard.

Table No. 13.

GRANITE BLOCKS SAND JOINTS, SAND FOUNDATION. (Repairs).

LOCATION.	LIMITS.	Square yards.	Measured.
Depot.....	Elm westerly, relaid.....	20.936	Aug. 19
Depot.....	Elm westerly, gutters relaid.....	7.294	Aug. 19
Elm.....	South of Depot, west side.....	13.201	Aug. 19
Elm.....	South of Bridge, east side.....	41.383	Aug. 19
Washington.....	Elm easterly, relaid.....	14.155	Aug. 19
		96.969	

Table No. 14.

GUTTERS.

LOCATION.	LIMITS.	Square yards.	Measured.
Amherst*.....	Elm to Nutfield lane.....	78.108	Aug. 26
Amherst†.....	Elm to Nutfield lane.....	11.158	Aug. 26
Merrimack, W*	Elm to Hampshire lane.....	77.272	Aug. 26
Merrimack, W†	Elm to Hampshire lane.....	11.038	Aug. 26
		177.576	

*Granite blocks, cement joints, sand foundation.

†Cobble paving, sand joints, sand foundation.

STREET PAVING LAID BY CAVANAUGH BROS.

Table No. 15.

GRANITE BLOCKS, SAND JOINTS, SAND FOUNDATION.

LOCATION.	LIMITS.	Square yards.	Measured.
Canal.....	Granite to south of West Cedar.....	1,656.155	Sept. 20
Canal.....	Granite southerly, repairs.....	3.000	Sept. 20
		1,659.155	

24 blocks per square yard.

STREET PAVING CHARGED TO STREET RAILWAY CO.

Table No. 16.

GRANITE BLOCKS, CEMENT JOINTS, CONCRETE FOUNDATION.

LOCATION.	LIMITS.	Square yards.	Measured.
Elm*	Lake avenue to Central.....	586.711	Sept. 15
Elm*	Head of Depot.....	120.911	Sept. 15
Elm*	Foot of Lake avenue	67.136	Sept. 15
Elm*	Foot of Central.....	88.691	Sept. 15
Elm†	Central northerly, repairs.....	131.718	Sept. 15
Elm\$	Water to West Bridge.....	1,185.058	Sept. 15
		2,180.225	

*24 blocks per square yard.
†35 blocks per square yard.

§24 and 35 blocks per square yard.

Table No. 17.

GRANITE BLOCKS, SAND JOINTS, SAND FOUNDATION.

LOCATION.	LIMITS.	Square yards.	Measured.
Depot	Elm westerly, relaid.....	20.936	Sept. 15.
Elm	South of West Bridge, relaid.....	2.408	Sept. 15.
		23.344	

Table No. 18.

SUMMARY OF TABLES 10 TO 17.

DESCRIPTION.	Total yards.	Paid by city.	P'd by St. Railway.
Granite blocks, cement joints, concrete foundation	7,538.013	5,489.506	2,048.507
Granite blocks, cement joints, concrete foundation, repairs.....	133.718	2.000	131.718
Granite blocks, sand joints, sand foundation, large...	3,090.387	3,090.387	
Granite blocks, sand joints, sand foundation, repairs	96.969	73.625	23.344
Gutters	177.576	177.576	
Granite blocks, sand joints, sand foundation, small...	1,659.155	1,659.155	
	12,695.818	10,492.249	2,203.569

Table No. 19.

PETITIONS FOR NEW HIGHWAYS ACTED UPON BY COMMITTEE ON STREETS DURING 1902.

LOCATION.	LIMITS.	Distance.	Width.	Petition of	Date of Petition.	With- drawn.	Granted.
Adams	Beaumont to Cartier	224.57	50	Jeremiah J. Sullivan	July 22, 1902		Oct. 13
Bank	550.81 ft. east of Canton to Hall road	930.00	50	M. E. Clough	July 21, 1902		Oct. 7
Broadway avenue	Boylston to Huntress	335.30	40	Albert H. Huntress	Aug. 28, 1901		July 1
Cartier east back	Hanover to Sherburne	922.86	40-50	Edward S. George	Apr. 10, 1902		Oct. 7
Charleston avenue	Anory to Kelley	650.78	20	William White	Apr. 18, 1902		July 1
Chase avenue	George to Rochelle avenue	205.09	40	John A. Riddle	Nov. 1, 1901	Dec. 16	
Derry	Hospital avenue to Hayes avenue	467.81	40	Charles A. Perkins	June 26, 1901		Oct. 7
Edin	Amherst to Concord	430.02	50	Charles W. Sanborn	Apr. 30, 1902		Oct. 3
Fourth	H. D. Lord's north line to Mitchell	2,110.00	100	Harry P. Ray, Adm.	Aug. 10, 1901		Sept. 25
George	Ferry to School	214.92	50	John A. Riddle	May 3, 1901		July 1
Hovey	440 ft. N. of Milford to Charleston avenue	369.55	40	Edmond Beaudoin	Sept. 30, 1901	Dec. 16	
Hospital avenue	Kelley to Brewer	530.00	50	Stephen N. Bourne	July 12, 1902		July 1
Huntress	Massachusetts to Cypress	535.74	40	Albert H. Huntress	Aug. 28, 1901		Oct. 7
Janelle avenue	North line of Bank to 292 ft. south	292.00	40	T. G. Biron	May 2, 1902		July 1
Lorraine	Bartlett to Thornton	290.00	50	John J. McGovern	July 9, 1901		July 1
Milford place	Anory to Kelley	446.45	50	Harrie M. Young	Nov. 11, 1902		Dec. 18
Norfolk	Milford southerly	165.50	23.16				
Porter avenue	Union to Beech	23.50	23.16-50				
Thornton	Amherst to Concord	490.00	50	Harry E. Blake	July 26, 1901		Sept. 25
West	Sullivan to 525.75 ft. south	414.49	40-35	J. N. Lacourse	Apr. 25, 1902		Sept. 25
Weston	Douglas to Conant	535.75	50	Andrew Engert	Apr. 25, 1902		July 1
Wheelock	Concord to Bridge	240.00	40	Charles Lange	Aug. 20, 1901		June 27
	West Hancock to Coffe	1,022.11	50	L. M. Adrich	Oct. 7, 1902		Dec. 17
		238.50	40	Louis Fousquet	May 31, 1901		July 1
		11,401.94					

SUMMARY.

Whole number of highway petitions acted upon	23	Total length of highways petitioned for	11,401.91
Granted leave to withdraw	2	Granted leave to withdrawn	574.61
Granted a hearing	21	Granted a hearing	10,827.30
	23		11,401.94
	23		11,401.94

Table No. 20.

PETITIONS FOR ESTABLISHING GRADE ACTED UPON BY COMMITTEE ON STREETS DURING 1902.

LOCATION.	LIMITS.	Distance.	Width.	Petition of	Date of pe- tition.	With- drawn.	Granted.
Adams	Beaumont to Cartier	221.57	50	Jeremiah J. Sullivan	July 22, 1902		Dec. 17
Amory	Alsace to Montgomery	785.00	50	Harrie M. Young	Oct. 17, 1902		Dec. 18
Arlington	Nashua to Russell	200.00	50	E. B. Davis	June 20, 1902		Oct. 13
Ash	Blodgett to Sagamore	459.83	50	John H. Maynard	Oct. 4, 1901		Dec. 19
Anburn	Canton to 550 feet east.	550.00	50	F. A. Platts	July 23, 1901		Oct. 7
B	C to Prince	237.71	40	Michael Kearns	May 9, 1902		July 1
Bank	Boymton to Huntress	335.30	40	Albert H. Huntress	Aug. 28, 1901		July 1
Broadway avenue	Hanover to Sherburne	922.86	40-50	Edward S. George	April 10, 1902		Oct. 7
Cartier*	Sullivan to 350 feet south	330.00	50	Adrien Blas	May 22, 1901		June 27
Cartier eastback.	Amory to Kelley	630.78	20	William White	April 18, 1902		July 1
Cedar	Maple to Lincoln	550.00	50	Harrie M. Young	Aug. 29, 1902		Dec. 18
Charleston avenue	George to Rochelle avenue	205.00	40	John A. Riddle	Nov. 1, 1901		July 1
Chase avenue	Hospital avenue to Hayes avenue	467.81	40	Charles A. Perkins	June 26, 1901		Oct. 7
Chestnut	Blodgett to Pennacook	220.00	50	George E. Morrill	July 2, 1901		June 27
Cleveland	Second to Merrimack river	542.00	40	Thomas J. Milnes	April 2, 1901		July 1
Derry	Amherst to Concord	430.02	30	Clarence W. Sanborn	April 30, 1902		Oct. 3
Douglas	Barr to Green	275.00	40	Mrs. Emma Liebing	Sept. 4, 1901		June 27
Boyer	Clinton to Granite	253.75	40	James Reid	June 14, 1901		June 27
Dubuque	Kelley to Bremer	550.00	50	Michael J. Gallagher	Mar. 29, 1902		June 27
Elm	Baker to Mitchell	2,573.00	100	Harry P. Ray, Adna	Aug. 10, 1901		Sept. 25
Elm f	Water to Spring	144.00		Harrie M. Young	May 20, 1902		Oct. 13
Ferry	Third to Spring	240.00	50	Fr. Lawrence Lamour	April 20, 1901		June 27
Fourth	Ferry to School	214.92	50	Fr. Lawrence Lamour	May 3, 1901		July 1
George	440 feet north of Milford to Charleston ave	369.55	40	John A. Riddle	Nov. 1, 1901		June 27
Grant	Hanover to 650 feet north	650.00	50	William M. Plummer	Mar. 3, 1902		June 27
Green	Union to Beech	430.00	50	John McGowan	April 12, 1902		June 27
Hevey	Kelley to Bremer	550.00	50	Edmond Beaudoin	Sept. 30, 1901		July 1
Hospital avenue	Massabesic to Cypress	535.74	40	Charles A. Sanborn	July 12, 1902		Oct. 7
Huntress	Bank to 255 feet south	255.00	40	Albert H. Huntress	Aug. 28, 1901		July 1
Janelle avenue	Bartlett to Thornton	200.00	20	T. G. Biron	May 2, 1902		July 1
Jewett*	Somerville to Chiley road	1,006.00	50	A. E. Foster	Oct. 21, 1902		Dec. 18
Jones*	Nelson to Benton	500.00	50	S. M. Couch	April 21, 1902		Dec. 19
Laval	Amory to Kelley	546.66	50	David Genard	May 27, 1901		June 27
Linden	Orange to Myrtle	221.46	50	Charles W. Cheney	Aug. 10, 1901		June 27
Lorraine	Amory to Kelley	446.45	50	John J. McGovern	July 9, 1901		July 1
Maple	Myrtle to Prospect	220.00	50	F. A. Robinson	May 8, 1901		June 27
Milford	Milford southerly	165.50	23	Harrie M. Young	Nov. 8, 1902		June 27
		23.50	16				Dec. 18
			23.16-50				

Norfolk	Union to Beech	50	July 26, 1901	Harry E. Blake	Sept. 25
Oak	Blodgett to Sagamore	50	Nov. 4, 1901	C. S. Magoon	Dec. 19
Porter avenue	Amherst to Concord	40-35	April 29, 1902	J. N. Lacombe	Sept. 25
Prospect*	Russell to 200 feet east	50	Nov. 11, 1902	E. H. Chadbourne	Dec. 17
Prospect*	Russell to Linden	50	Aug. 5, 1902	H. B. Sawyer	Dec. 16
Russell	Pearl to Orange	263.16	May 2, 1902	Thorndike P. Heath	June 27
Russell	Harrison to Blodgett	380.00	June 7, 1899	Edmund Kendall	June 27
Sagamore	Russell to Linden	400.70	July 23, 1902	James F. Howe	Oct. 13
Spruce, East*	Beacon to Cypress	832.85	Aug. 2, 1901	M. E. Clough	June 27
Taylor	Hayward to Young	245.52	May 21, 1902	Alfred T. Dodge	Dec. 19
Union	Hayward to Valley	440.00	June 21, 1901	Edgar W. Poore	June 27
Warren	Bridge to Arlington	134.00	Aug. 29, 1901	F. W. Shoutell	June 27
Webster	Chestnut to Pine and Adams	312.08	June 18, 1902	Harrie M. Young	Oct. 13
West	Parker to Clinton	160.00	June 19, 1901	David Seannell	July 1
West	Douglas to Conant	240.00	Aug. 20, 1901	Charles Lange	July 1
Weston	Concord to Bridge	972.11	Oct. 7, 1902	L. M. Aldrich	Dec. 18
Whitlock	West Hancock to Goff	238.50	May 31, 1901	Louis Bonsquet	July 1
Young	Taylor to Answorth avenue	524.00	Aug. 14, 1902	James M. Hall	Dec. 18
		24,898.41			

*Petition for changing grade. †Petition for establishing curb grade.

SUMMARY.

Whole number of grade petitions acted upon	55	Total length of highway grades petitioned for	24,435.41
Granted leave to withdraw	1	Granted leave to withdraw	500.00
Granted a hearing	54	Granted a hearing	24,235.41
55	55	24,435.41	24,435.41

Table No. 21.

MISCELLANEOUS PETITIONS ACTED UPON BY THE COMMITTEE ON STREETS DURING 1902.

LOCATION.	LIMITS.	Dis- tance.	Square feet.	Petition of	Date of petition.	Granted.
Granite*	South Main easterly		1,684.84	Annie M. Sheldon	Aug. 8, 1902	Aug. 8
Main South†	School to 61.29 feet north	61.29	139.77	" "	" 8, 1902	" "
Main South‡	64.21 feet north of School to Granite.	74.44	458.43	" "	" 8, 1902	" "
Young§	Taylor to 524.64 feet east	524.64		James M. Hall	" 14, 1902	Dec. 18
		600.37	2,283.04			

*Petition for widening on south side.

†Petition for widening on east side.

‡Petition for discontinuance on east side.

§Petition for widening and straightening.

Table No. 22.

HIGHWAYS LAID OUT IN 1902 BY THE BOARD OF MAYOR AND ALDERMEN.

LOCATION.	LIMITS.	Length.	Width.	Laid out.	Petition of	Date of petition.	Hearing recom- mended.
Bank	Boynton to Huntress	335.30	40	Aug. 8, 1902	Albert H. Huntress	Aug. 28, 1901	July 1, 1902
Bay	Clarke to 348.48 feet north	348.48	50	June 27, 1903	H. A. Farrington	May 27, 1902	To M. & Ald.
Broadway ave.	Hanover to Sherburne	322.86	40.30	Nov. 21, 1902	Edward S. George	Apr. 10, 1902	Oct. 7, 1902
Charleston ave.	George to Rochelle avenue	205.09	40	June 13, 1902	Fred Leiming	Nov. 1, 1901	To M. & Ald.
Chase avenue	Hospital avenue to Hayes avenue	467.81	40	Dec. 19, 1902	Charles A. Perkins	June 26, 1901	Oct. 7, 1902
Coolidge avenue	Kelley to 1,712 33 feet north	1,712.33	65.75	June 13, 1902	Eugene Quirin	Apr. 30, 1902	To M. & Ald.
Corey place	Concord to 198 feet south	198.00	20	July 25, 1902	William Corey	Sept. 27, 1899	May 25, 1900
Cumberland	Amory to Monitor	600.00	50	June 13, 1902	Louis Geisler	Mar. 21, 1901	July 13, 1901
Dubuque E. B.	Sullivan to 300 feet south	300.00	20	June 13, 1902	Adrien Biels	Mar. 17, 1900	July 19, 1901
Elm	H. D. Lord's north line to Mitchell	2,110.00	100	Nov. 14, 1902	Harry F. Ray, Adm.	Aug. 10, 1901	Sept. 25, 1902
Fourth	Ferry to School	214.92	50	Aug. 22, 1902	Fr. Lawrence Lamour	May 3, 1901	July 1, 1902
George	440 ft N. of Millford to Charleston ave.	369.55	40	June 13, 1902	Fred Leiming	Nov. 1, 1901	To M. & Ald.
Harvard	Hall to Belmont	356.50	50	July 1, 1902	Rev. G. A. Guertin	Apr. 29, 1902	To M. & Ald.
Hevey	Kelley to Bremer	550.00	50	Aug. 22, 1902	Edmond Beauloin	Sept. 30, 1901	July 1, 1902
Hollis	Elm to Canal	648.63	50	Nov. 21, 1902	Harriet M. Young	Oct. 31, 1902	To M. & Ald.
Huntress	North line of Bank to 292 feet south	292.00	40	Aug. 8, 1902	Albert H. Huntress	Aug. 28, 1901	July 1, 1902
Janelle avenue	Bartlett to Thornton	200.00	20	Aug. 8, 1902	T. G. Biron	May 2, 1902	July 1, 1902
Lorraine	Amory to Kelley	446.45	50	Aug. 22, 1902	John J. McGovern	July 19, 1901	July 1, 1902
Norfolk	Union to Beech	490.00	50	Oct. 31, 1902	Harry E. Blake	July 26, 1901	Sept. 25, 1902
Silver	Hall to Belmont	356.50	50	July 1, 1902	Rev. G. A. Guertin	Apr. 29, 1902	To M. & Ald.
West	Douglas to Conant	240.00	40	July 25, 1902	Charles Lange	Aug. 20, 1901	June 27, 1902
		11,364.45					

Table No. 23.

MISCELLANEOUS PETITIONS ACTED UPON BY THE BOARD OF MAYOR AND ALDERMEN DURING 1902.

LOCATION.	LIMITS.	Dis- tance.	Square feet.	Laid out.	Petition of	Date of petition.	Hearing recom- mended.
Granite* Hooksett road†	South Main easterly, Manchester - Hooksett town line to 314.59 feet south		1,684.84	Sept. 12, 1902	Annie M. Sheldon	Aug. 8, 1902	Aug. 8, 1902
Main South‡	School to 61.29 feet north	314.59		May 16, 1902	Fred K. Ramsey	May 29, 1901	June 7, 1901
Main South§	64.21 feet north of School to Granite	61.29	139.77	Sept. 12, 1902	Annie M. Sheldon	Aug. 8, 1902	Aug. 8, 1902
Mast square||	Mast street and Mast road	74.44	458.43	Sept. 12, 1902	Annie M. Sheldon	Aug. 8, 1902	Aug. 8, 1902
William¶	Minford to Mast	940.00	401.70	Apr. 25, 1902	Frank H. Taylor	Apr. 3, 1900	May 2, 1901
			4700.00	May 27, 1902	Edward C. Smith	Nov. 29, 1901	To M. & Ald.
		1,390.32	7,384.74				

* Petition for widening on south side.

† Petition for widening and straightening.

‡ Petition for widening on east side.

§ Petition for discontinuance on east side.

|| Petition for acquiring 401.70 sq. ft. of land at junction of Mast street and Mast road.

¶ Petition for discontinuing 5 feet on west side.

Table No. 24.

PETITIONS ACTED UPON BY THE COMMITTEE ON SEWERS AND DRAINS DURING THE YEAR 1902.

LOCATION.	LIMITS.	Distance.	Petition of	Date of petition.	Granted.
Adams.....	Carpenter to Trenton.....	531	William Corey.....	Mar. 4, 1902	Nov. 25
Amory.....	Alsace to Joliette.....	252	Joseph Houine.....	Aug. 29, 1902	Sept. 9
Ash.....	Sagamore to Salmon.....	304	Masonic Home.....	May 19, 1902	June 3
Ashtand.....	East High to Bridge.....	330	S. A. Felton.....	Apr. 20, 1902	June 6
Bismarck.....	Milford northerly.....	800	Henry J. Dexter.....	May 20, 1902	June 11
Bowman.....	Mast to Milford.....	843	A. B. Johnson.....	Aug. 27, 1902	Sept. 9
Bridge.....	Beacon to Weston.....	450	L. M. Aldrich.....	Feb. 14, 1902	June 6
Buzzell.....	Lowell to East High.....	363	William Carr.....	May 13, 1902	June 6
Cedar*.....	At northwest corner Beech.....		Rev. J. A. Chevalier.....	July 21, 1902	July 22
Chestnut.....	Carpenter to Trenton.....	531	Mrs. M. H. Varick.....	May 9, 1902	Aug. 27
George.....	North of Milford to Charleston avenue.....	362	John A. Riddle.....	Apr. 12, 1902	Sept. 9
Hall.....	Clay to Dix.....	250	John Sullivan.....	Nov. 15, 1901	Nov. 25
Hall.....	Lowell to East High.....	363	P. H. Stiles.....	May 6, 1902	June 6
Harvard.....	East of Wilson to Hall.....	252	Alfred D. Plummer.....	July 25, 1902	Sept. 9
Lake avenue*.....	At southwest corner Cypress.....		Fred P. Danforth.....	June 9, 1902	Sept. 9
Laurel*.....	At No. 417.....		George L. Smith.....	May 3, 1902	June 6
Prout avenue.....	Hayward southerly.....	516	Alfred F. Martin.....	Apr. 7, 1902	June 6
Somerville.....	Hall to Taylor.....	900	Joseph N. Duval.....	Dec. 20, 1901	Nov. 25
Somerville.....	Taylor to West of Cypress.....	345	Joseph N. Duval.....	Dec. 6, 1901	Nov. 25
Taylor.....	Somerville to Dix.....	555	Harry A. Titus.....	Dec. 15, 1901	Dec. 9
Union.....	Trenton northerly.....	500	Orrin J. Prescott.....	June 11, 1902	Sept. 9
		8527			

*Requests for free entrance.

Table No. 25.

SEWERS ORDERED IN BUT NOT BUILT UP TO JANUARY 1, 1902.				BUILT DURING 1902.		NOT NEEDED.	
Location.	Limits.	Distance.	Date of order.	Distance.	Excess.	Dis- tance.	Dis- tance.
Anherst	Union to Ashland	2,600	May 2, 1893				2,600
Amory	Alsace to Amoskeag Company's line	248	Dec. 31, 1901	278	30		
Ash	Blodgett to Sagamore	508	Dec. 31, 1901	380		128	
Auburn	Cypress, easterly	300	May 2, 1899				300
Auburn	East of Canton, easterly	90	Nov. 3, 1894				90
Auburn south back	Hall, easterly	150	Jan. 7, 1896				150
Bartlett	Wayne to Amory extension	522	June 4, 1901	524	2		
Beacon	Amherst to Concord	71	Nov. 10, 1896				71
Beech	Harvard to Hayward	272	Oct. 4, 1898				272
Beech	Bridge to Orange	629	Dec. 4, 1900				629
Belmont	South of Somerville to Dix	441	June 4, 1901				441
Belmont	Old Bridge to Bridge	200	Jan. 7, 1896				200
Blaine	Second to Hiram	400	Dec. 6, 1892				400
Brenner north back	Coolidge avenue west back to Rimmon	89	Oct. 4, 1898				89
Calef road	Baker, northerly	49	June 4, 1901				49
Cedar south back	Beech, westerly	175	May 5, 1896				175
Central	Belmont to Milton	242	Nov. 2, 1897	242			
Central	Milton to Beacon	311	Sept. 6, 1898	4			
Central south back	Chestnut to Union	860	July 3, 1901				307
Columbus	Amory, southerly	128	July 26, 1899				860
Concord	Pine east back to Union	152	Sept. 12, 1899				128
Concord	Hall, easterly	86	Sept. 6, 1887				152
Dover	Clinton, northerly	160	Sept. 4, 1894				86
Elm	Shasta to Baker	106	May 6, 1890				160
Elm	Railroad Bridge to Elm avenue	1,373	May 6, 1890				106
Elm	Monroe south back to Clarke	707	June 4, 1895				1,373
Elm	Trenton to Rowell	448	Feb. 4, 1896				707
Falls avenue	Old Falls road, easterly	345	Nov. 5, 1901				448
Foster avenue	Valley to Hayward	140	July 14, 1896				345
Frederick	Second, easterly	175	July 26, 1899				140
Front	Eddy to north of hotel	2,800	Sept. 5, 1893				175
George	Milford, northerly	40	June 5, 1900	40			2,800
Grove south back	Wilson, easterly	200	Nov. 2, 1897				
Hallroad	Massachusetts to Nelson	601	Aug. 5, 1898				200
Hale	Schiller, southerly	450	Nov. 9, 1894				601
Hanover	East of Alfred to Highland	134	Jan. 4, 1897				450
Harrison	Maple to Oak	350	Oct. 3, 1899				134
							350

Table No. 25.—Continued.

SEWERS ORDERED IN BUT NOT BUILT UP TO JANUARY 1, 1902.					BUILT DURING 1902.		NOT BUILT.	
LOCATION.	LIMITS.	Distance.	Date of order.		Distance.	Excess.	Dis- tance.	Dis- tance.
Harrison	Belmont, westerly	65	Sept. 1, 1896					65
Harvell	Hale to South Main	700	Nov. 9, 1894					700
Hayes avenue	Old Falls road to Chase avenue	206	Jan. 2, 1899					206
Hayward	Ainsworth avenue to Cypress	148	Sept. 7, 1897					148
Hevey east back	Wayne, northerly	146	Jan. 7, 1896					146
Hevey east back	South of Amory to Columbus avenue	396	July 10, 1893					396
Hevey east back	Kelley to Bremer	350	June 4, 1901					350
High, East	West of Hall to Belmont	152	Aug. 30, 1901					152
Jones	Nelson to Benton	550	Aug. 5, 1898					550
Main, South	Schiller to Allen	1,340	Dec. 4, 1900					1,340
Mammoth road	Massabesic to Nelson	1,166	May 2, 1899					1,166
Mammoth road	Nelson, northerly	541	Aug. 5, 1898					541
Massabesic	Jewett to Hall road	934	May 2, 1899					934
Massabesic	Hall road to Mammoth road	590	Dec. 31, 1901		414			1,470
Mast	Rochelle avenue to Brock	1,470	Mar. 13, 1900					1,470
Mast road	Mast to old Bedford-Goffstown line	366	June 5, 1900					366
Merrill	Jewett, easterly	504	June 5, 1900					504
Merrill south back	Pine to Union	570	Dec. 31, 1901					570
Montgomery east back	Kelley to Bremer	1,635	Dec. 4, 1900					1,635
Nelson	Hall road to Mammoth road	65	Feb. 4, 1896					65
Nutt road	Silver to Baker	447	Oct. 3, 1899					447
Orange	Belmont westerly	100	Sept. 12, 1899					100
Pine	Silver to plumber	60	Oct. 3, 1899					60
Pine east back	South of Concord to Concord	164	Sept. 3, 1895					164
Plummer	Pine to Union	306	Aug. 6, 1901					306
Prospect	Hall, easterly	770	Nov. 2, 1897					770
Rimmon	South of Wayne to Putnam	850	Sept. 7, 1897					850
Rimmon east back	Kelley to Mason	118	Oct. 3, 1899					118
River road	Clarke to Park avenue	160	Nov. 10, 1896					160
Russell	South of Blodgett to Sagamore	512	July 26, 1899					512
Schiller	North of South Main	246	Dec. 3, 1895					246
Second	Hale to South Main	110	Aug. 4, 1900					110
Second	North of Frederiek to Frederick		Jan. 7, 1896					
Somerville	South of Schiller to Harvell							
Somerville	Union to Maple							
Somerville	Cypress, westerly							
Spruce	East of Cauton, easterly							

Summer south back	Union, easterly	150	June 4, 1901	100	10	546
Sylvester	Millford to Avon	546	July 26, 1899			75
Taylor	South of Valley, southerly	75	Oct. 2, 1900			942
Taylor	Wayward to Somerville	1,240	Sept. 3, 1901			
Thornton	Putnam to Sullivan	465	Nov. 5, 1901		1	1,000
Union	Clarke to Trenton	1,462	July 2, 1895			337
Union	North of Prescott to Merrill south back	537	June 5, 1900			192
Union	North of Prescott to Hayward	192	Sept. 7, 1897			50
Union east back	South of Christian Brook, southerly	50	Aug. 6, 1895			133
Valley	Cypress, westerly	133	Jan. 4, 1897			4,040
Valley	Edm to Wilson	4,040	Nov. 7, 1893			105
Walnut	Salmon, southerly	105	Jan. 23, 1897			88
Walnut east back	Salmon, northerly	88	Nov. 10, 1896			
West	Clinton, northerly	226	Sept. 4, 1894	194	32	
Wentworth	Schiller, northerly	400	Oct. 5, 1895			400
William	Millford to Mast	522	Oct. 3, 1899			522
		44,280		3,402	43	40,671

Table No. 26.

SEWERS ORDERED IN DURING THE YEAR 1902.					
Location.	Limits.	Distance.	Date of order.		NOT BUILT.
			Distance.	Excess.	
			BUILT DURING 1902.	Distance.	NOT NEEDED.
			Distance.	Excess.	Distance.
Adams	Carpenter to Trenton	531	Dec. 19, 1902		531
Amory	Alsace to Joliette	252	Oct. 7, 1902		252
Ash	Sagamore to Salmon	304	July 1, 1902		63
Ashland	East High to Bridge	330	July 25, 1902	241	
Bismarck	Millford northerly	800	July 25, 1902	200	130
Bowman	Must to Millford	813	Oct. 7, 1902		
Bridge	Benton to Weston	450	July 25, 1902		
Buzzell	Lowell to East High	363	July 25, 1902	396	800
Chestnut	Carpenter to Trenton	531	Oct. 7, 1902		54
George	North of Milford to Charleston ave.	362	Oct. 7, 1902	310	531
Hall	Clay to Dix	250	Dec. 19, 1902		52
Hall	Lowell to East High	363	July 25, 1902		250
Harvard	East of Wilson to Hall	252	Oct. 7, 1902	86	143
Prout avenue	Hayward southerly	516	July 25, 1902		252
Somerville	Hall to Taylor	900	Dec. 19 1902		516
Somerville	Taylor to west of Cypress	345	Dec. 19 1902		900
Taylor	Somerville to Dix	575	Dec. 19 1902		345
Union	Trenton northerly	500	Oct. 7, 1902		575
			1,233	264	7,030

Table No. 27.

SEWERS BUILT IN 1902 WITHOUT AN ORDER.

LOCATION.	LIMITS.	Distance.
Albert	Harrison, northerly	74
Amory*	McGregor to Beauport	809
Blodget*	Pine to Walnut	804
Bremer†	Coolidge avenue, westerly	32
Bremer†	Dubuque to Dubuque east back	20
Bridge, West*	McGregor, easterly	125
Carpenter§	At Union	40
Cartier†	Kelley to Coolidge avenue	420
Central	Belmont, westerly	96
Central§	East of Hall, easterly	93
Church, North	Orange to Orange south back	102
Coolidge avenue†	Cartier to Bremer	210
Dubuque†	Bremer, southerly	32
Harrison§	Union to Union east back	130
Manhattan lane§	Central south back, northerly	66
Maple	Blodget, southerly	240
McGregor*	West Bridge to Amory	112
Merrimack	East of Beacon, easterly	120
Pine*	Christian brook to Blodget	1,016
Thornton	Sullivan, southerly	388
Union east back§	Harrison to Blodget	724
		5,653

* Relief sewer.

† For cesspools.

§ Relaid.

Table No. 28.

PIPE REMOVED WHERE SEWERS HAVE BEEN RELAID.

LOCATION.	LIMITS.	Material.	Size in inches.	Length in feet.
Blodget	Union east back to Walnut	Akron	12	153
Carpenter	At Union	"	8	40
Central	East of Hall, easterly	"	8	93
Harrison	At Union east back	"	12	4
Manhattan lane	Central south back, northerly	"	15	66
Maple	Blodget, southerly	"	8	54
Pine	Pennacook S. B. to Sagamore S. B.	"	12	270
Pine	Salmon S. B. to Christian brook	"	12	329
Pine	Sagamore to Salmon south back	"	8	128
Union east back	Harrison to Blodget	"	12	754
West	Clinton to Granite	Cement	12	194
				2,085

Table No. 29.

SEWERS ORDERED IN, BUT NOT BUILT TO JANUARY 1, 1903.

LOCATION.	LIMITS.	Distance.	Date of order.
Adams	Carpenter to Trenton	531	Dec. 19, 1902
Amory	Alsace to Joliette	252	Oct. 7, 1902
Ash	Sagamore to Salmon	63	July 1, 1902
Auburn	Cypress, easterly	300	May 2, 1899
Anburn	East of Canton, easterly	90	Nov. 9, 1894
Auburn south back	Hall, easterly	150	Jan. 7, 1896
Beacon	Amherst to Concord	71	Nov. 10, 1896
Beech	Harvard to Hayward	272	Oct. 4, 1898
Beech	Bridge to Orange	629	Dec. 6, 1900
Belmont	South of Somerville to Dix	441	June 4, 1901
Belmont	Old Bridge to Bridge	200	Jan. 7, 1896
Bismarck	Milford, northerly	800	July 25, 1902
Blaine	Second to Hiram	400	Dec. 6, 1892
Bowman	Mast to Milford	843	Oct. 7, 1902
Bremer north back	Coolidge ave. west back to Rimmon	89	Oct. 4, 1898
Bridge	Beacon to Weston	54	July 25, 1902
Buzzell	Lowell to East High	363	July 25, 1902
Calef road	Baker, northerly	49	June 4, 1901
Cedar south back	Beech, westerly	175	May 5, 1896
Central	Milton to Beacon	307	Sept. 6, 1898
Central south back	Chestnut to Union	800	July 9, 1901
Chestnut	Carpenter to Trenton	531	Oct. 7, 1902
Columbus	Amory, southerly	128	July 26, 1899
Concord	Pine east back to Union	152	Sept. 12, 1899
Concord	Hall, easterly	86	Sept. 6, 1887
Dover	Clinton, northerly	160	Sept. 4, 1894
Elm	Shasta to Baker	106	May 6, 1890
Elm	Railroad bridge to Elm avenue	1,373	May 6, 1890
Elm	Monroe south back to Clarke	707	June 4, 1895
Elm	Trenton to Rowell	448	Feb. 4, 1896
Falls avenue	Old Falls road, easterly	345	Nov. 5, 1901
Poster avenue	Valley to Hayward	140	July 14, 1896
Frederick	Second, easterly	175	July 26, 1899
Front	Eddy to north of hotel	2,800	Sept. 5, 1893
George	No. of Milford to Charleston avenue	52	Oct. 7, 1902
Grove south back	Wilson, easterly	200	Nov. 2, 1897
Hall road	Massabesic to Nelson	601	Aug. 5, 1898
Hale	Schiller, southerly	450	Nov. 9, 1894
Hall	Clay to Dix	250	Dec. 19, 1902
Hall	Lowell to East High	143	July 25, 1902
Hanover	East of Alfred to Highland	134	Jan. 4, 1897
Harrison	Maple to Oak	370	Oct. 3, 1899
Harrison	Belmont, westerly	65	Sept. 1, 1896
Harvard	East of Wilson to Hall	252	Oct. 7, 1902
Harvell	Hale to South Main	700	Nov. 9, 1894
Hayes avenue	Old Falls road to Chase avenue	206	Jan. 2, 1899
Hayward	Ainsworth avenue to Cypress	148	Sept. 7, 1897
Hevey east back	Wayne, northerly	146	Jan. 7, 1896
Hevey east back	So. of Amory to Columbus avenue	396	July 10, 1893
Hevey east back	Kelley to Bremer	350	June 4, 1901
High, East	West of Hall to Belmont	152	Aug. 30, 1901
Jones	Nelson to Benton	550	Aug. 5, 1898
Main, South	Schiller to Allen	1,340	Dec. 4, 1900
Mammoth road	Massabesic to Nelson	1,166	May 2, 1899
Mammoth road	Nelson, northerly	500	Aug. 5, 1898
Massabesic	Jewett to Hall road	541	Aug. 5, 1898
Massabesic	Hall road to Mammoth road	934	May 2, 1899
Mast	Rochelle avenue to Brock	176	Dec. 31, 1901
Mast road	Mast to old Bedford-Golfstown line	1,470	Mar. 13, 1900
Merrill	Jewett, easterly	366	June 5, 1900
Merrill south back	Pine to Union	500	June 5, 1900
Montgomery east back	Kelley to Bremer	504	Dec. 31, 1901
Nelson	Hall road to Mammoth road	570	Dec. 31, 1901
Nutt road	Silver to Baker	1,635	Dec. 4, 1900
Orange	Belmont, westerly	65	Feb. 4, 1896
Pine	Silver to Plummer	447	Oct. 3, 1899
Pine east back	South of Concord to Concord	160	Sept. 12, 1899

Table No. 29.—Continued.

SEWERS ORDERED IN, BUT NOT BUILT TO JANUARY 1, 1903.

LOCATION.	LIMITS.	Distance.	Date of order.
Plummer.....	Pine to Union.....	60	Oct. 3, 1899
Prospect.....	Hall, easterly.....	100	Sept. 3, 1895
Prout avenue.....	Hayward southerly.....	516	July 25, 1902
Rimmon.....	South of Wayne to Putnam.....	164	Aug. 6, 1901
Rimmon east back.....	Kelley to Mason.....	800	Sept. 7, 1897
River road.....	Clarke to Park avenue.....	306	Nov. 2, 1897
Russell.....	South of Blodget to Sagamore.....	770	Oct. 3, 1899
Schiller.....	Hale to South Main.....	850	Nov. 10, 1896
Second.....	North of Frederick to Frederick.....	118	July 26, 1899
Second.....	South of Schiller to Harvell.....	160	Dec. 3, 1895
Somerville.....	Union to Maple.....	512	Aug. 2, 1898
Somerville.....	Hall to west of Cypress.....	1,305	Dec. 19, 1902
Somerville.....	Cypress, westerly.....	246	Dec. 4, 1900
Spruce.....	East of Canton, easterly.....	110	Jan. 7, 1896
Sylvester.....	Milford to Avon.....	546	July 26, 1899
Taylor.....	South of Valley southerly.....	75	Oct. 2, 1900
Taylor.....	Hayward to Somerville.....	942	Sept. 3, 1901
Taylor.....	Somerville to Dix.....	575	Dec. 19, 1902
Union.....	Clarke to Trenton.....	1,462	July 2, 1895
Union.....	Trenton northerly.....	500	Oct. 7, 1902
Union.....	No. of Prescott to Merrill south back.....	337	June 5, 1900
Union.....	North of Prescott to Hayward.....	192	Sept. 7, 1897
Union east back.....	South of Christian brook, southerly.....	50	Aug. 6, 1895
Valley.....	Cypress, westerly.....	133	Jan. 4, 1897
Valley.....	Elm to Wilson.....	4,040	Nov. 7, 1893
Walnut.....	Salmon, southerly.....	105	Jan. 29, 1897
Walnut east back.....	Salmon, northerly.....	88	Nov. 10, 1896
Wentworth.....	Schiller, northerly.....	400	Sept. 5, 1895
William.....	Milford to Mast.....	522	Oct. 3, 1899
		48,435	

Table No. 30.

SUMMARY.

Table No. 25 column 3, (ordered in to January 1, 1902).....	44,280	
Table No. 25 column 5, (built).....		3,402
Table No. 25 column 6, (built in excess of order).....	43	
Table No. 25 column 7, (unnecessary).....		160
Table No. 25 column 8, (not built).....		40,761
Table No. 26 column 3, (ordered in in 1902).....	8,527	
Table No. 26 column 5, (built).....		1,233
Table No. 26 column 7, (unnecessary).....		264
Table No. 26 column 8, (not built).....		7,030
	52,850	52,850

Sewers built in 1902 of those ordered in up to January 1, 1903 (feet).....	4,441
Sewers relaid in 1902 of those ordered in up to January 1, 1903 (feet).....	194
Sewers built in 1902 without orders (feet).....	3,811
Sewers relaid in 1902 without orders (feet).....	1,842
Total length of sewers built in 1902 (feet).....	10,288

Table No. 31.
SEWERS BUILT IN 1902.

LOCATION.	LIMITS.	Material.	Size in inches.	Length in feet, new.	Length in feet, relaid.	Man-holes.	Lamp holes.	House Y's.	Cess-pool Y's.
Albert	Harrison, northerly	Portland	10	74		1		2	
Amory	McGregor to Main	"	24	475		3		2	
Amory	Main to Beaufort	"	20	288		1			
Amory	Main to Beaufort	Akron	18	46		1			4
Amory	Aisace to Lorraine	Portland	12	278		1		11	
Ash	Blodgett to south of Sagamore	Akron	12	300				10	2
Ash	Blodgett to south of Sagamore	Portland	12	80				4	
Ash	Sagamore, northerly	"	10	241		1		6	
Ashland	East High, northerly	Akron	10	200		1		1	
Bartlett	Wayne to Amory extension	Portland	15	125		1		4	1
Bartlett	Wayne to Amory extension	Akron	15	125		1		5	1
Bartlett	Wayne to Amory extension	Portland	12	137				5	2
Bartlett	Wayne to Amory extension	Akron	12	137		1		4	1
Blodgett	Pine to Walnut	Portland	18	670	128	5			2
Blodgett	At Walnut	Akron	12		6				
Bremer	Coolidge avenue, westerly	"	10	32					3
Bremer	Dubuque to Dubuque east back	Portland	10	50		1			
Bridge	Beacon to Weston	Akron	10	237		1			
Bridge	Beacon to Weston	Portland	10	159		1		1	
Bridge, West	McGregor, easterly	"	24	125		2		1	
Bridge, West	At Union	"	12		40				
Carpenter	Kelley to Coolidge avenue	Akron	12	420		3			5
Cartier	East of Hall to Milton	"	10	342	93	3		14	4
Church, North	Orange to Orange south back	"	10	102		1		5	
Coolidge avenue	Cartier to Bremer	"	12	100		1			2
Coolidge avenue	Cartier to Bremer	"	10	110		1			
Dubuque	Bremer, southerly	Portland	10	32					2
George	North of Milford, northerly	Akron	10	350		1		10	
Hall	Lowell, northerly	Portland	10	86		1			
Harrison	Union to Union east back	Akron	15	126		1		2	2
Harrison	At Union east back	"	12		4				
Manhattan lane	Central south back, northerly	"	24		66		1	4	
Maple	Blodgett, southerly	Portland	10	186	54	1		7	
Mast	Rochelle avenue, westerly	Akron	18	209		1		2	2
Mast	Rochelle avenue, westerly	"	15	265		2		6	
McGregor	West Bridge to Amory	Portland	24	112		1			
Merrimack	East of Beacon, easterly	Akron	12	120			1	1	

Pine	Christian brook to Blodget.....	24	267	319	4	.....	5	6
Pine	Christian brook to Blodget.....	24	222	408	1	.....	3	2
Summer south back.....	Union, easterly	10	160	.....	1	.....	3	.....
Taylor	Hayward to Young	12	298	.....	1	.....	3	6
Thornton.....	Putnam to Sullivan	12	466	.....	2	.....	16	2
Thornton.....	"	10	194	.....	1	.....	8	1
Thornton.....	Sullivan, southerly	10	194	.....	1	.....	8	1
Union	Akron	10	148	.....	1	.....	4	.....
Union	Portland	10	254	.....	2	.....	6	1
Union	"	12	.....	468	2	.....	7	1
Union east back.....	Carpenter, northerly	12	.....	256	2	.....	5	3
Union east back.....	Harrison to Brook	10	.....	194	1	.....	11	3
West	Brook to Blodget.....	10	.....	.....	1	.....	.....	.....
	Clinton to Granite.....	10	.....	.....	1	.....	.....	.....
			8,252	2,036	58	2	186	61

Table No. 32.

MATERIAL, SIZE AND LENGTH OF SEWERS JANUARY 1, 1903.

SIZE IN INCHES.	Akron.	Portland (old).	Portland (new).	Cement.	Earthen.	Brick.	Cast Iron.	Steel riveted.	Total feet.	Man-holes.
6	70								70	15
8	12,367	90					24		12,481	1
9				7,616					7,616	267
10	99,229	3,990	8,459		1,175		90		113,443	222
12	90,787		5,781	18,673	2,545		34		117,820	138
14							24		24	35
15	37,596		4,643	490					42,729	59
18	5,665	770	1,133	800		5,532			14,020	79
20	14,075		3,439			1,900	178		17,672	7
24	12,538		4,582	735			36		19,858	
16 x 24				1,697					1,697	
29						1,600			1,600	
36				506		446	277.5	39	822.5	1
42				446		1,135			1,196	2
44									372	3
48								372	1,400	2
57									285	1
17 x 26						1,400			1,506	4
20 x 30						1,197			1,197	5
22 x 33						849			849	3
24 x 36						11,051			11,051	38
26 x 39						514			514	2
29 1/4 x 44						4,530			4,530	9
30 x 46						1,360			1,360	1
32 x 48						3,279			3,279	10
36 x 54						1,067			1,067	4
38 x 57						4,388			4,388	8
40 x 64						790			790	4
42 x 63						3,104			3,104	9
50 x 75						712			712	2
Total feet.....	272,327	4,850	28,597	30,071	3,720	47,211	643.5	478	387,897	931
Total miles.....	51.577	0.919	5.416	5.695	0.704	8.941	0.122	0.090	73.464	

Table No. 33.

SUMMARY OF SEWERAGE SYSTEM SINCE 1880.

YEAR.	Miles con- structed during year.	Miles con- structed to date.	House con- nections recorded during year.	House con- nections recorded to date.	Cost of sewers.	Average cost per mile.
1880.....	1.62	18.66	.....	.....	\$19,919.40	\$12,295.92
1881.....	2.18	20.84	.....	.....	23,895.12	10,961.06
1882.....	3.37	24.21	.....	.....	24,148.13	7,165.65
1883.....	2.54	26.75	.....	.....	21,452.05	8,445.69
1884.....	1.73	28.48	.....	.....	21,548.60	12,445.84
1885.....	1.56	30.04	.....	.....	28,122.84	18,027.46
1886.....	2.15	32.19	.....	.....	44,479.15	20,687.97
1887.....	1.44	33.63	.....	.....	19,893.92	13,815.22
1888.....	1.73	35.36	.....	.....	31,154.19	18,008.20
1889.....	2.66	38.02	.....	2003	27,513.73	10,343.51
1890.....	1.81	39.83	64	2067	39,297.97	21,711.68
1891.....	3.08	42.91	153	2220	55,409.73	17,990.17
1892.....	3.13	46.04	214	2434	39,724.65	12,691.58
1893.....	3.31	49.35	191	2625	51,392.15	15,528.33
1894.....	2.91	52.26	258	2883	46,116.01	15,847.42
1895.....	3.98	56.24	255	3138	71,859.36	18,055.11
1896.....	4.73	60.97	237	3375	66,408.87	14,099.33
1897.....	*3.93	64.44	283	3658	36,258.41	9,226.05
1898.....	*3.76	67.62	520	4178	34,939.51	9,292.42
1899.....	*1.54	69.03	208	4386	16,683.39	10,819.31
1900.....	*1.14	70.17	231	4617	13,748.41	12,091.58
1901.....	1.74	71.91	227	4844	14,724.39	8,462.29
1902.....	*1.95	73.46	186	5030	20,973.05	10,753.41
Total.....	.....	.....	.....	.....	†\$755,914.62	.....

*Includes old sewers relaid.

†Total cost for 23 years.

Table No. 34.

NAME.	RESIDENCE.	No. of ap- plication.	Renewal fee re- ceived.	Class of plumber.	No. of cer- tificate.	Date of renewal.	Date of ex- piration.
Anlaw, Ashley A.	777 Grove	19	\$.00	Master.	18	Aug. 31, 1902	Aug. 31, 1903
Bangs, Charles S.	841 Union	77	.50	"	47	"	"
Beaumur, Albert J.	409 Pine	50	.50	"	64	"	"
Belanger, Arthur	403 Pine	14	.50	"	14	"	"
Belanger, Arthur	336 Prospect	28		Journeyman.	26	"	"
Blood, Frank W.	329 Harrison	47		Master.	37	Aug. 31, 1902	"
Bradley, John J.	357 Merrimack	76	.50	"	84	"	"
Briggs, Thomas J.	16 Second, Amoskeag	22	.50	Journeyman.	21	"	"
Brock, James L.	357 Central	34	.50	Master.	65	"	"
Brown, Charles W.	21 Market	27	.50	"	25	"	"
Brown, Warren F.	303 Laurel	90		Journeyman.	94	"	"
Burke, John E.	29 Appleton	96	.50	Master.	66	Aug. 31, 1902	"
Burke, Hermenegelde.	280 Grove	24	.50	Journeyman.	22	"	"
Carr, Thomas H.	60 McGregor	63		Master.	77	"	"
Cavanaugh, Michael	252 Cedar	101	.50	"	71	Aug. 31, 1903	"
Cavanaugh, Thomas J.	244 Cedar	43	.50	Journeyman.	93	"	"
Clarke, Charles H.	54 Canal	42	.50	Master.	95	"	"
Clement, Joseph H.	Hooksett	100	.50	Journeyman.	76	"	"
Colby, James A.	275 West Hancock	102	.50	"	58	"	"
Coleman, Michael J.	283 Merrimack	105	.50	Master.	82	"	"
Connor, Charles	268 Walnut	7	.50	"	7	"	"
Connor, John J.	47 Elm	72	.50	"	63	"	"
Connors, John A.	47 Elm	73	.50	"	72	"	"
Cote, Ronald C.	10 Grove, Lowell, Mass.	17	.50	Journeyman.	85	"	"
Cotter, Garrett W.	290 Dubuque	31	.50	Master.	28	"	"
Desmarais, Raoul	70 Spruce	44		Master.	80	Aug. 31, 1902	"
Dowd, John A.	92 Pearl	68	.50	Journeyman.	44	"	"
Emerson, John M.	75 Arlington	32	.50	"	99	"	"
Ewart, John	19 Russell	10	.50	"	10	"	"
Farrall, Henry M.	Arlington, Mass.	62	.50	Master.	100	"	"
Farrall, John D.	264 Spruce	38	.50	"	32	"	"
Fiorand, Joseph	31 Amory	89	.50	Journeyman.	53	"	"
Geisler, John	1 Meehanie	35	.50	"	30	"	"
Goodwin, Wm. E.	16 School	33	.50	"	29	"	"
Greer, Cecil J.	Hooksett road	41	.50	Master.	35	"	"
Greer, Leslie C.	108 Hanover	39	.50	Journeyman.	33	"	"
Griffin, Frank W.	1152 Elm	2	.50	"	2	"	"
Grinard, Alfred	340 Harrison	26	.50	Master.	24	"	"
	22 Liberty	54	.50	Journeyman.	41	"	"

				Aug. 31, 1902	Aug. 31, 1903
Guincy, John J.	255 Lake avenue.	104	Journeyman.	.50	.50
Hackett, Charles A.	221 Lake avenue.	20	"	.50	.50
Hanlin, George V.	289 Laurel.	52	Master.	.50	.50
Heald, Frank E.	289 Concord.	92	"	.50	.50
Hevey, Joseph N.	322 Rimmon.	30	"	.50	.50
Hill, Lucius E.	41 Appleton.	3	Journeyman.	.50	.50
Hood, Allen K.	138 Willow.	29	"	.50	.50
Horsfall, James W.	Cypress.	99	"	.50	.50
Huntley, Julian B.	296 Pine.	4	Master.	.50	.50
Kearney, Michael J.	341 Chestnut.	61	Journeyman.	.50	.50
Keith, Alvin H.	211 Bridge.	98	Master.	.50	.50
Knoetner, George.	164 Railroad.	46	Journeyman.	.50	.50
Knoetner, Oscar.	326 Main.	59	Master.	.50	.50
Ladouceur, Albert V.	478 Hevey.	25	Journeyman.	.50	.50
Lane, Frank A.	731 Beech.	79	Master.	.50	.50
Lane, Thomas A.	Bedford Center.	97	Journeyman.	.50	.50
Langer, Richard C.	36 Clinton.	84	"	.50	.50
Larkin, John F.	219 East Spruce.	75	Master.	.50	.50
Leighton, Frank D.	128 Sagamore.	23	"	.50	.50
Lewis, Fred S.	165 Mammoth road.	40	"	.50	.50
Longval, Dolphis.	62 Laurel.	51	Journeyman.	.50	.50
Marchand, Joseph F.	498 Central.	94	Journeyman.	.50	.50
Marston, Gardiner F.	301 Walnut.	55	"	.50	.50
Maynard, Mederique R.	324 Dubuque.	53	"	.50	.50
Mayo, Albert F.	261 Belmont.	9	Master.	.50	.50
McDonald, Charles F.	216 Lowell.	5	"	.50	.50
McKenna, Daniel J.	101 Amherst.	65	Journeyman.	.50	.50
McKenna, John J.	101 Amherst.	18	"	.50	.50
McLaughlin, John T.	284 East Spruce.	86	"	.50	.50
Merrill, Edwin W.	21 Ash.	74	Master.	.50	.50
O'Brien, Martin.	123 Amherst.	16	Journeyman.	.50	.50
O'Tool, Thomas J.	45 Middle.	60	"	.50	.50
Ravard, Zephirin H.	Hooksett road.	11	"	.50	.50
Seaward, Chester L.	296 Orange.	12	"	.50	.50
Swaden, George W.	373 Bridge.	13	"	.50	.50
St. Peter, Edmund.	24 Granite.	88	"	.50	.50
Tangney, Dennis J.	160 Central.	1	"	.50	.50
Thornton, John J.	355 Concord.	45	"	.50	.50
Van Brocklin, George.	61 Nashua.	6	"	.50	.50
Ward, Thomas E.	441 Amherst.	49	"	.50	.50
Wolf, Adolph A.	38 Clinton.	69	Master.	.50	.50
Wolf, Christian L.	36 Clinton.	15	Journeyman.	.50	.50
Wolf, M. Bernard.	265 Turner.	103	"	.50	.50
Worthen, Albert L.	Cilley road.	21	"	.50	.50

Table No. 35.

NAME.	RESIDENCE.	No. of ap- plication.	Renewal fee re- ceived.	Class of plumber.	No. of license.	Date of renewal.	Date of ex- piration.
Belanger, Ernest.....	336 Prospect street.....	12	\$0.50	Journeyman	6	Aug. 31, 1902	Aug. 31, 1903
Garland, James O.....	Hooksett	3	.50	"	2	"	"
Harishorn, John E.....	485 Pine street	11	.50	"	5	"	"
Kelley, James V.....	452 Pine street	9	.50	"	4	"	"
Knoettner, Fred O.....	326 North Main street	1	.50	"	3	Aug. 31, 1902	"
Lewis, Albert M.....	43 Ashland street.....	14	.50	"	8	"	"
Raiche, Trefle.....	436 Rinnon street.....	5	.50	Master	7	"	"
Seaman, Carl O.....	14 South street.....	4	.50	"	1	"	"

Table No. 36.

NAME.	RESIDENCE.	No. of ap- plication.	Examina- tion fee received.	Class of plumber.	No. of license.	Date of issue.	Date of ex- piration.
Belanger, Ernest.....	336 Prospect street	12	\$1.00	Journeyman	6	Mar. 7, 1902	Aug. 31, 1903
Harishorn, John E.....	485 Pine street.....	11	1.00	"	5	Dec. 13, 1901	"
Lewis, Albert M.....	43 Ashland street	14	1.00	"	8	May 8, 1902	"
Nesley, Chestley E.....	51 West Merrimack street	13	1.00	"	9	Sept. 5, 1902	"
Raiche, Trefle.....	436 Rinnon street	5	1.00	Master	7	May 8, 1902	"

Table No. 37.
SUMMARY OF TABLES NOS. 34, 35, 36.

Master plumber's certificates renewed during year 1902	34
Journeyman plumber's certificates renewed during year 1902	40
Master plumber's licenses renewed during the year 1902	2
Journeyman plumber's licenses renewed during the year 1902	5
Master plumber's licenses granted during year 1902	1
Journeyman plumber's licenses granted during year 1902	4
	5
	81

To His Honor the Mayor, the Board of Aldermen, the gentlemen of the Common Council, and the various committees with whom it has been my pleasure to come in contact, I wish to express my appreciation of the valued assistance and support you have rendered me during the year.

My acknowledgments are due to the gentlemen of the Street and Park Commission for their courtesy, consideration and co-operation in matters in which we were mutually concerned.

SAMUEL J. LORD.
City Engineer.

REPORT
OF THE
SUPERINTENDENT OF SCHOOLS.

SCHOOL DEPARTMENT.

ORGANIZATION FOR 1902.

School Committee.

WILLIAM C. CLARKE, Mayor, Chairman, *ex officio*.
HARRY T. LORD, President of Common Council, *ex officio*.

WARD 1.	Elloit C. Lambert. Walter B. Heath.	WARD 6.	Eugene B. Dunbar. Harry L. Davis.
WARD 2.	Charles H. Manning. Will. C. Heath.	WARD 7.	Edward B. Woodbury. Edson S. Heath.
WARD 3.	George D. Towne. Louis E. Phelps.	WARD 8.	Walter B. Mitchell. Benjamin Price.
WARD 4.	Nathaniel L. Colby. G. Fred Soule.	WARD 9.	Henry I. Lemay. Sabin Nourry.
WARD 5.	John T. Kelley. Daniel J. McAuliffe.	WARD 10.	Mark E. Harvey. Harry H. Burpee.

Vice-Chairman of the Board.

GEORGE D. TOWNE.

Clerk of the Board.

ELLIOT C. LAMBERT.

Superintendent of Public Instruction.

CHARLES W. BICKFORD.

Superintendent's Clerk.

FANNIE L. SANBORN.

Truant Officer.

CURTIS W. DAVIS.

STANDING COMMITTEES.

Finance.—Mayor Clarke and Messrs. Lord, Lambert, Woodbury and Soule.

Salaries.—Messrs. Harvey, Davis, and Nourry.

Text-Books.—Messrs. Towne, Lambert, and Phelps.

Music.—Messrs. W. C. Heath, W. B. Heath, and Burpee.

Drawing.—Messrs. McAuliffe, Davis, and E. S. Heath.

Manual Training.—Messrs. Phelps, Dunbar, and McAuliffe.

Examination of Teachers.—Messrs. Colby, Burpee, and Woodbury.

Fuel and Heating.—Mr. Manning, Mayor Clarke, Messrs. Lord, Harvey, and Kelley.

Repairs.—Messrs. Manning, Mitchell, and Lemay.

Attendance.—Messrs. E. S. Heath, Price, and McAuliffe.

Health.—Messrs. Dunbar, Towne, and Kelley.

SUB-COMMITTEES.

High School.—Messrs. Manning, Towne, Phelps, Lambert, and Woodbury.

Franklin-street.—Messrs. Woodbury, Lambert, and Davis.

Spring-street.—Messrs. Mitchell, Burpee and Soule.

Lincoln-street and Youngsville.—Messrs. Colby, Harvey, and W. B. Heath.

Ash-street and Webster's Mills.—Messrs. Phelps, Kelley, and E. S. Heath.

Webster-street and Stark.—Messrs. Towne, Manning, and McAuliffe.

Bakersville and Mosquito Pond.—Messrs. Kelley, Davis, and Price.

Varney.—Messrs. W. B. Heath, Mitchell, and Lemay.

Hallsville and Harvey.—Messrs. Davis, Colby, and W. C. Heath.

Rimmon.—Messrs. Lemay, E. S. Heath, and Manning.

Training School.—Messrs. Lambert, Woodbury, and Phelps.

Main-street.—Messrs. Nourry, Dunbar, and Harvey.

Parker.—Messrs. Price, Soule, and Dunbar.

Wilson.—Messrs. Dunbar, W. C. Heath, and Kelley.

Straw.—Messrs. E. S. Heath, McAuliffe, and Mitchell.

Amoskeag.—Messrs. W. C. Heath, Lemay, and Burpee.

Goffe's Falls.—Messrs. Harvey, Phelps, and Nourry.

Lowell-street.—Messrs. McAuliffe, Price and Colby.

Pearl-street.—Messrs. Burpee, W. C. Heath, and Kelley.

Evening Schools.—Messrs. Soule, Nourry, and Towne.

IN BOARD OF SCHOOL COMMITTEE.

DECEMBER 26, 1902.

The Superintendent presented his annual report to the committee, and it was accepted.

Voted, That the report by the superintendent be accepted and adopted as the report of the board, and that it be transmitted to the city councils for publication in the annual City Report.

ELLIOT C. LAMBERT,

Clerk.

SUPERINTENDENT'S REPORT.

To the School Board, the City Councils, and the Citizens of Manchester :

I have the honor of presenting the following report upon the condition of the public schools of the city, for the school year 1901-1902. The report is the fifty-sixth annual, and the forty-seventh of a superintendent.

SCHOOLS.

There have been in session during the past year 2 manual training schools, 5 ungraded schools, 1 partially graded school, 46 rooms of primary grade, 28 of middle, 34 of grammar, and the equivalent of 15 rooms of high school grade. These give a total of 131 schools. The average number for the year, however, has been but 129. The average number last year was 127. Extra rooms have been opened as follows: a primary school of 47 pupils in the Lincoln street building for one-half of the year, a lower primary school of 34 pupils on Massabesic street in Hallsville for one term, a lower middle school of 31 pupils in the Parker building for one-half of the year, a higher middle school of 23 pupils in the Ash street building for one term. In addition to these, many primary classes have been accommodated in middle schools.

ENROLLMENT AND ATTENDANCE.

The total registration for the year has been 6,123 as against 5,808 for 1901, an increase of 315. The average membership has been 4,876 as against 4,552 for 1901, an increase of 324. The average daily attendance has been 4,480 as against 4,127 for the preceding year, an increase of 353. The increases in average membership, i. e., of those who have been members of the schools every day of the school year, have been as follows in the various grades: in the high school 11, in the grammar schools 86, in the middle 26, in the primary 182, in all others 19. This year, as last, the greatest increase has been in the primary grades, where it has been 182 as against 163 for 1901. During the year 1902, the schools have increased in size by enough pupils to fill one eight-room building. During the preceding year they increased by enough to fill a four-room building.

TEACHERS.

The average number of teachers employed for the year has been 142. This includes the special teachers of music and drawing. In 1890, 86 teachers comprised the entire force. The increase in twelve years has been 65 1-10 per cent. In 1890-1891, the growth in teaching force was seven, the increase of pupils 257; in 1892-1893, the year of greatest expansion, the number of teachers increased by twelve, the pupils by 477. In general, an increase of about 40 pupils has required an additional teacher. The average membership in 1890 was 2,795; in 1902, 4,876, an increase of 74.4 per cent. While the teaching force has increased by 65.1 per cent, the average membership of pupils has increased by 74.4 per cent. The average number of pupils per teacher has varied from 34 to 36 when the computation is based upon the whole number of teachers employed excluding special teachers and including supervising principals. The number of pupils per room has varied from 35 to 38, averaging 37. During the year just past the average has been highest, being 38. The major part of the schools, however, have had more than 38 pupils. The five suburban schools, with their small enrollment, and the high school, with its average of 25 pupils per teacher, cause the work of the grade teacher, as shown by number of pupils, to be much less onerous than it really is.

Of our grammar schools, two have had an average membership of over 50 pupils, eight others have averaged from 45 to 50, and seven others from 40 to 45; of the middle grades, eight have had from 45 to 50, and six from 40 to 45 pupils; of the primary schools, two have averaged over 60 (with two teachers), twenty from 45 to 50, and thirteen from 40 to 45. A regulation limiting the number of pupils for any one teacher to 45 would greatly benefit the schools.

CHANGES AND TRANSFERS.

Our corps of teachers has suffered few losses. In October, 1901, Miss Florence Dow, special instructor in music, was compelled to relinquish her duties because of ill health. Miss Dow was a skilful teacher, enthusiastic, talented, and devoted to her art. Her work has been of inestimable value to the schools of the city. The vacancy created by her retirement was filled by the election of Miss Maude E. Brown. At the expiration of the school year, three other vacancies were caused by the resignations of Misses Winnifred Hall and Kate E. Batchelder of the Hallsville school, and Miss Grace M. Page of the High School, all experienced and valued teachers. Miss Batchelder's school was filled by the promotion of Miss Mary L. Ayer, while Miss Clara V. Clement was elected to the position vacated by Miss Hall, and Miss Annie M. Vose to that vacated by Miss Page.

Because of unusually large enrollments of pupils in different parts of the City the board during the year made transfers among, and additions to the forces in the various buildings as follows:

At the Bakersville school, Miss Lelia A. Brooks was promoted from fourth to third division grammar grade, Miss Cora M. Farmer from middle to fourth grammar, Miss Mary L. Heath from lower primary to middle grade, and Miss Kathryn D. McKeon was employed as lower primary teacher.

At the Webster-street school, Misses Edith A. Murphy and Helen Townsend were employed for portions of the year as assistants in the lower primary room.

At the Lincoln-street school, Mrs. Everett Hill was employed from the time of opening an extra room in that building, in February, till the end of the year.

At the Wilson school, Miss Mary E. McLaren was promoted to be Miss Joy's assistant and Miss Bertha V. Franks was elected to the vacancy caused by Miss McLaren's promotion.

At the Parker school, in February, Miss Elizabeth M. Flanders was promoted from lower primary to middle grade and Miss Maude E. Winegar was given charge of the lower primary.

At the same time of the year, Miss Edith A. Murphy was employed as an additional teacher at the Goff's Falls school.

At the opening of the spring term, in April, Miss Martha J. Kennedy was given charge of the new schoolroom opened on Massabesic street and Miss Gladys Baker succeeded Miss Kennedy as assistant in the Hallsville primary room, at the same time Miss Grace Whittemore was elected to teach the extra room at the Ash-street school.

At the annual election of teachers, Miss Flora M. Walker was transferred from the higher primary school at the Franklin-street to the vacancy caused by the promotion of Miss Ayer at the Hallsville school; Miss Whittemore was transferred from the temporary room at the Ash-street school to the higher primary at the Franklin-street; Miss Carlena Savory was placed in charge of the extra room at the Lincoln-street, vice Mrs. Everett Hill. Miss Marjory Woodbury was elected to the extra room at the Ash-street.

Misses Amy E. Davison and Ethel A. Nicholson have since been employed as assistants in place of Misses Baker and Clement, respectively, at the Hallsville school.

Edwin R. Crane, assistant at the manual training school, resigned in the month of November to become an instructor in St. Paul's school at Concord. This position has been filled by a substitute since that time.

ACCOMMODATIONS.

Of the twenty-four school buildings owned by the city, six may be classed as suburban. Five of these, the Stark, Youngsville, Webster's Mills, Mosquito Pond, and Harvey, afford ample accommodation for the

present number of pupils. The sixth, the Goff's Falls building, is already full. This is a two-roomed structure calculated to accommodate about eighty pupils. The rooms are of medium size. The registration already exceeds the seating capacity of the two rooms, although extra seats have been placed in all the available space. A further increase of pupils will necessitate the providing of additional room.

Of the other buildings, four, the Hallsville, Lincoln street, Ash street, and Rimmon are already overcrowded. The Hallsville building was designed to accommodate 384 pupils. The ventilating capacity of the building is figured upon this basis. A number of pupils in excess of this is detrimental to the school both upon the score of health and instruction. There have been registered in this school during the past year 513 pupils, 428 of whom have been constant attendants. The number present has, at times, exceeded this. This number, 428, is 44 greater than the capacity of the building. Upon the surface it would appear that there have been employed in this building, because of a surplus of 44 pupils, three additional teachers. The six higher rooms, beginning with the first division, have today 40, 41, 43, 47, 44, 38 pupils, respectively: the two lower rooms 59 and 63, and 34 pupils are accommodated in a rented room outside the building. The primary grades alone are crowded, five teachers are employed to instruct 156 pupils, when, with adequate room, the work might easily be done by four. Three hundred and fifty dollars, the yearly pay of the extra teacher, plus one hundred and fifty dollars, the rent of the extra room, is the yearly income derived by the city from \$22,222.22 worth of taxable property with the tax rate at \$2.25, or, it is the interest upon \$10,000 at 5 per cent. The overcrowding of these lower rooms is a menace to the health of the children. The vitiated air renders them more susceptible to disease and impairs their mental vigor. But, aside from these last and more important considerations, and in view of the fact that it appears that there will be more children rather than fewer in this district, good business calculation will show that it is economy to build an addition of at least two rooms to this building, when there can be saved, annually, at least the interest upon the cost of construction.

At the Lincoln street building, 49 pupils have been accommodated in a room partitioned from the hall, upon the third floor. The average membership in this building has been 430 for the year. This is 46 in excess of the seating capacity of the building. In a graded system, it is impossible to arrange the classes so that every seat in a room shall be occupied. The pupils in the different rooms have been as follows from the first division down,—49, 44, 49, 54, 49, 45, 48, 47, 45. Middle school children have been placed upon the third floor, as being able to endure the strain of additional stair climbing better than very young children, or than those somewhat older. The placing of children upon the third floor of the building, as is done in this and in the Ash street school, is not desirable both from the point of view of health and of conduct of the school. The Wilson school is well filled, the rooms averaging 42 pupils each. No relief

for the Lincoln street can be looked for in that quarter. The construction of a primary school upon Wilson hill, with the consequent readjustment of school boundaries, could be made to relieve the Ash-street and the Lincoln-street schools.

The Rimmon school remains as before, with two teachers occupying the lower primary room and another conducting her recitations in a small room designed for the principal's office.

There are since the transfer of the evening drawing school to the manual training building on Lowell street, eight unoccupied schoolrooms in the city, not including the new Highland building which has not yet been opened. Five of these—two in the Straw, two in the Parker building and one in Amoskeag—are modern, pleasant, well lighted and ventilated rooms. Three—in the Spring street building—are, to say the least, not desirable.

The new Highland school soon to be opened is a modern, four-room building, situated near the height of land in the southern part of the city, of which it commands a magnificent view. The site is healthful, the surroundings pleasant, and the dwellers in this section of the city are to be congratulated upon the possession of such an edifice.

The building is a four-room, brick structure, trimmed with granite, 64 feet by 42 1-2 feet, two stories in height. It is heated by both direct and indirect radiation, the surface of steam piping in the rooms being alone sufficient to heat the building. The ventilating flues are calculated to furnish 30 cubic feet of air per minute for each pupil, or to change the entire air contents of the room eight times per hour.

The building was built by the Head & Dowst Co., from plans furnished by the architects, Chickering & O'Connell.

The schools of the city, in the past, have increased on an average in daily attendance by about 175 pupils per year. These would fill one four-room building. This fact being known, it would be wise for the city councils to take it into account in determining the amount of money to be raised each year, and to include a sum sufficient to cover the expense of erecting such a building, the same to be a sinking fund for the erection of new schoolhouses.

Exclusive of the high school, the city has expended \$100,000 for schools in the past eight years, an average of \$12,500 per year. It will probably be necessary to build an eight-room building or its equivalent in smaller buildings and additions every four years. By providing a sinking fund to meet this requirement, the burden will fall less heavily upon the tax payers and needed school accommodations can be secured with greater readiness.

TRANSPORTATION OF PUPILS.

The average cost per pupil in our schools for the year 1901 was \$28.39. The city maintains five ungraded district schools. The cost of these five

schools for instruction, free text-books and supplies, and janitor's service, omitting the expense of fuel and repairs was \$3,147.20. The average membership in these schools was 80. The cost per pupil was, therefore, \$39.33, 38.5 per cent more than the average for the whole city, which average is itself raised by the inclusion of the cost of these same schools. These are ungraded schools, they have from four to ten different classes, ranging from lowest primary to higher grammar grade. The recitation periods are short, too short to enable the teachers to do their work as they would. The pupils miss the stimulus that comes from class work, the attendance is irregular. The larger boys are often times unruly and the conditions leave much to be desired in the preparation of these children for their life work.

The most distant of these schools is less than two and one-half miles from the nearest graded school, and the most remote pupil lives not more than a mile beyond the schoolhouse. The transportation of these pupils to the nearest graded school would be of great advantage to them in every respect. They could be classified with others of their own age and capabilities, and for this reason would be better instructed; the attendance, judging from experience in other places, would be bettered, and last, and of least importance where human welfare is considered, the city could save at least a thousand dollars yearly. Some residents of these rural sections are already sending their children to the city schools, others object strongly to the discussion of any such scheme.

The objections are of two sorts, based, the one upon property, the other upon sentiment. It is claimed that the closing of a rural school would cause property in that neighborhood to depreciate that people do not care to live where there are no school facilities. This objection is easily met. The transportation of children to a graded school at the public expense places in every man's door-yard the best public school in the city. So far from depreciating in value, property will rather increase and people will be glad to take up a suburban residence when their children are assured of all the advantages of a graded school.

The objection upon the ground of sentiment is less easily met. It can only be urged that objectors set the good of the child over against the feeling of local pride and decide upon that basis.

HIGH SCHOOL.

The continued advance of the high school in popular favor is most gratifying. This growth may be traced partly to the business course, which, during the past year, has been extended so as to cover the entire four years. A pupil so desiring can now center his efforts upon arithmetic, book-keeping, typewriting and stenography throughout his entire period of stay in the school. The equipment of typewriting machines, however, is inadequate to meet the demands of the course and should be doubled.

In the Supreme Court of the state of New Hampshire in June, 1896, in

the case of Wheeler v the town of Alton, certain principles were enunciated by Chief Justice Carpenter in regard to school money raised by towns. Among them are these two:— "All money raised by a town for school purposes must be paid over to the school board, who are alone responsible, under a heavy penalty, for its lawful expenditure," and, "Towns have no power to require that money raised by them for schools shall be applied to any special purpose. The appropriation of the school money rests exclusively with the school board." Should these hold true in regard to cities, a prohibition of the expenditure of money for typewriters by the Common Council is of no force and the board can purchase typewriters from any funds in its hands that it sees fit so to use.

The advanced physics course has been greatly benefited by its recently secured apparatus. In last year's report a plea was made for an equipment sufficient to enable the fourth class in physics to do individual work. I desire again to bring this matter to your notice. If it is impracticable to fully equip this course at once, the purchase of from one to two hundred dollars' worth of apparatus each year for three or four years will soon place the course upon a proper footing.

TRAINING SCHOOL FOR TEACHERS.

I believe that the training school for teachers is doing the best work that has ever been done in our city in preparing its graduates for teacher's positions.

It is the exemplar of primary and middle school work and can be visited often and profitably by every primary teacher.

Here has been worked out to its great improvement the problem of primary reading. Here also in process of solution is the primary arithmetic problem. Upon these two depends to the greatest degree the betterment of all our higher grades.

In this school is done the work of the first four years laid down in our course of study. Consequently the young ladies in training for the work of teaching gain experience in the two primary and the lower middle grades only. They cannot be said to be qualified for grammar school work except, in some cases, in scholarship. They have had no experience calculated to prepare them for this work. As a result, we graduate primary grade teachers almost exclusively.

The value of the school to the city can be greatly enhanced by either of two plans,—first, by enlarging the present building so as to include grammar grades, thereby relieving the overcrowded Lincoln street school and possibly the Ash street, or second, by transferring the school to a full grade building or to one having at least two grammar rooms—for instance to the Straw building.

There the members of the training class can gain experience in the work of all grades, their fitness for particular work can be accurately deter-

mined and we shall have a school, which, in all grades, will be a model school.

In such case the principal of the training school should be relieved of the necessity of supervising the play grounds, halls and basements of the building in which the school is located.

We place in charge of this lady eight or ten young candidates for teachers' positions, expect her to supply deficiencies in their scholarship, closely supervise four rooms, each with an inexperienced teacher in charge, teach psychology, pedagogy, school management, history of education and conduct model classes in all subjects, as well as be responsible for the discipline of a whole building.

She is given one skilled assistant. It is truly an Herculean task, but the labors of Hercules produced a Hercules.

There is need in this school of a further equipment of books and I trust that the needs of the school in this respect will be as readily met in the future as in the past.

MANUAL TRAINING SCHOOL.

Three hundred and fourteen grammar school boys have had the advantage of manual training under Mr. Browne's direction. This is by far the largest enrollment the school has ever had. The course of drawing and wood-work has been slightly changed and some few additions have been made.

The enlargement of the first division room has been a great improvement. This room's equipment has been increased by the addition of two engine lathes, one loaned by the Amoskeag Manufacturing Company, the other purchased from the manufacturers. The new machine is a thirteen-inch five-foot lathe of the F. E. Reed manufacture. A course in iron work is being formulated which will include chipping and filing, fitting, scraping, etc., with problems in lathe work, consisting of plain cylindrical turning, taper turning, screw cutting, face plate work, boring and drilling, tapping, and cutting threads by hand. The course cannot be fully developed without a further equipment of a 16-inch or 20-inch drill press, and lathe and drill tools. These will entail a further outlay of about \$250. The course will go into operation early in the coming year. I do not need again to go into the matter of the importance of manual training as a force in character building. It is one of the most, if not the most important factor in education and is slowly being given its proper place in the scheme of instruction.

CHANGES IN RULES.

During the past year sections 8 and 9 of chapter 1 of the rules have been amended to read as follows:

SECTION 8. Pupils attaining the age of five years before the first day of October may enter school at the opening of the fall term, and those attaining the same age before the first of March, may enter at the time of

the semi-annual promotions, about the first of February; but no pupil shall be admitted after the first four weeks of the fall term or later than the seventh week of the winter term, unless qualified to enter some existing class.

SECTION 9. The school year shall comprise thirty-eight weeks and be divided into three terms, as follows: A winter term of twelve weeks, followed by a vacation of two weeks, a spring term of eleven weeks, followed by a vacation of ten weeks, and a fall term of fifteen weeks, followed by a vacation of two weeks.

It is believed that the admission of pupils at the beginning of each half year instead of at the beginning of the spring term and in September as heretofore, will prevent the congestion of pupils in the lower primary grades. Each entering child will have done a year or a half year of work, and will be prepared for the next class at promotion time. Formerly, the spring beginners have returned in the fall practically beginners, having lost during the summer a large part of what they had acquired in ability to read. This was lost because the spring term was too short for the acquirement of sufficient reading ability to be carried through the summer. With the new arrangement, each beginner will have a full year or half year according as he enters in September or February, and there will be time enough to carry the reading beyond the mere vocabulary of 83 sight words, which was about all that could be done in the short spring term. The February entering classes will be small, particularly so in the coming February, and disappointment will be experienced by some parents when it is learned that beginners will not be received in April. The great influx of children will probably occur in September when they can be most easily cared for. This arrangement will also probably reduce the total registration of pupils for the year by one or two hundred. The following year, however, should see a large increase. The second amendment was designed to give the pupils and teachers more time in which to do the work required in our schools. The school year was nominally thirty-seven weeks. As a matter of fact, because of inclement weather and holidays the actual number of weeks was about thirty four. It is hoped that the present arrangement will give about thirty-five weeks of actual work.

The course of study prohibits the assignment of any daily home study in any of our schools below the high school. A large proportion of the pupils in the first divisions of the grammar schools upon graduation enter the high school. It is necessary in that institution for lessons to be studied at home. I believe that, as a matter of preparation for high school work, it would be wise to allow the first division teachers to require the learning of one lesson at home by their pupils. Besides serving as a preparation for high school work, it will inculcate studious habits, and better the work in the last year of the grammar schools.

CLEAN SCHOOLHOUSES.

The influences which surround children as well as adults and of which they are unconscious are most potent in the formation of character.

Among the virtues which the schools endeavor to inculcate is that of cleanliness. This is most easily done amid clean and attractive surroundings. The proposition that every schoolroom shall be kept clean, that the floors shall be washed with reasonable frequency, that the walls shall be dusted and the desks cleaned, that paper and refuse shall not be allowed to accumulate about the grounds and walks, that as pleasant and homelike an air as possible shall pervade the schoolhouse, will, I am sure, be assented to by all. All our buildings, so far as sweeping is concerned, are, I believe, well kept and many of them also as regards washing. In others, the woodwork and floors are cleaned but once a year, and then in a manner not satisfactory and not such as would be tolerated in our homes. A regulation requiring the washing of every schoolhouse floor at least twice in each term, the dusting of all the walls at least once a month, and the constant oversight of desks, particularly around the edges, where dirt becomes gummed on from constant grasping by moist hands, would, I believe, meet the general approval of teachers, parents and children. A close espionage, especially, should be kept upon desks for they may become fruitful sources of contagion.

HONORARY MENTION.

The retention by the community of its representatives upon the school board for extended terms is a most wise practice, and one beneficial to the educational interests of the city. The school board is not and should not be a stepping stone to higher political preferment. To it are committed the most sacred interests of the citizens of the City. A slowly changing body permits of adherence to a definite policy in educational affairs and the continuing of lines of work to definite results. The close of the present year marks the retirement of two members of the board who have served the educational interests of the city most faithfully for sixteen years, Mayor William C. Clarke and Captain Charles H. Manning.

Mayor William C. Clarke first became a member of the Manchester school board in 1883, when he was elected with Col. Benjamin C. Dean to represent Ward Two. He remained continuously in office for eight years, at the end of that time declining a renomination. During these four terms of office he served upon the committees on text-books and supplies, examination of teachers, fuel and heating, Ash and Webster grammar schools and the evening schools. He was inaugurated mayor in 1895, and, having served in this capacity for a period of eight years, his term of service on the school board comprises sixteen years. As mayor he has served upon the committee on fuel and heating, and committee on finance, as well as chairman of the board. When Mayor Clarke first entered upon his duties as mayor he found an imperative demand for additional public school buildings to accommodate the increasing number of pupils. Under his administration six modern schoolhouses have been added to the city's equipment, as follows: High school, twenty-two rooms and assembly hall, cost \$170,000; Straw school, eight rooms, cost \$30,000;

Wilson school, eight rooms, cost \$30,000; Amoskeag school, four rooms, cost \$8,000; Parker school, eight rooms, cost \$20,000; Highland school, four rooms, cost \$12,000. The high school building is regarded by educators as the finest high school building in New England for the amount of money expended.

The six schools above mentioned comprise one-fourth of the city's present equipment.

Captain Charles H. Manning was elected to the school board from Ward One, in April 1884, and continued to represent that ward until he removed from its precincts in 1892. In January 1895, he again resumed his place upon the board as a member from Ward Two, and has since continued to the present time. Mr. Manning has served upon the committees upon fuel and heating, Webster and Blodget-street schools, evening schools, Straw school, Webster and Stark, Rimmon, repairs and High school. Of the last two he has been chairman during his entire term of service and of others for shorter periods. Upon several occasions he has prepared the annual report of this body to the City Councils. Especially valuable to the city, has been his expert knowledge of construction and mechanics. Mr. Manning has served upon all the special committees appointed for the construction of the six buildings above mentioned.

To Mayor Clarke and Mr. Manning the city owes a debt of gratitude both for their services to the material side of education and for their counsels, advice, and decisions in the conduct of other school matters.

COURSE OF STUDY.

The high school course of study has been so modified that the business course now extends over the entire four years. A rearrangement of the history schedule has also been made.

In the grammar schools, the study of civil government has been limited to the last eight weeks of the winter term, and the study of physiology from a text-book will be undertaken during the entire spring term. The beginning of algebra in the grammar schools has borne good fruit. The high school teachers inform me that there is a marked improvement in the ability of the entering pupils to pursue this study. The present grammar school course is so arranged that a foreign language, either ancient or modern, can at will be introduced as an elective in the last year.

The improvement in primary reading is most noticeable. The first year pupils have read from eleven to three books each. These books have been within the child's comprehension and the reading of them has shown greatly increased power in discovering new words.

GENERAL CONSIDERATIONS.

From a physiological standpoint, education is the training of brain cells and the development of connecting fibres among the same, that relations

may be quickly apprehended and all the power of all related cells applied at will to any purpose in hand.

All knowledge is based upon the senses and is the product of the senses primarily, for without some one of these avenues to the exterior world no sensations can reach the brain and there can be no consciousness. Primarily, then, from sensations is built the structure which we call the intellect, and primarily from sensations do we grow to have will and moral and spiritual power. The gaining of sensations through hearing, seeing, feeling, smelling, tasting, touching and weighing gives us what we call experience, from the rudimentary percepts of the infant to the highly complex and intricate act of perception of the trained adult, where a glance, a word, a sensation will involve, instantly, far-reaching judgments based of course upon previous experience. That man is the best educated who has had the broadest experience and is enabled to use all of his experience so far as it relates to the matter in hand. Ideas gained from words in books, unless they result in action of some kind, not immediate necessarily, do not educate symmetrically. The doing education and the book education should go hand in hand.

The more accurate the senses the more truthful the individual, for his senses have taught him the truth and he has been guided by the truth. He who will not deceive himself will not deceive others. He sees true relations, infers correctly and his judgments are right.

The beginning of school should be such an one as will tend to train sense perception. The more senses that can be brought to bear in apprehending truth, the clearer the perception of that truth and consequently there is greater power to apprehend new truth.

The kindergarten is a rational attempt to make use of the childish play instinct to train his perception. This is done by means of songs, employment and games. It is not a play school. In it may be laid the foundation for the best after work. The child's butterfly interest is attracted, deepened and developed toward voluntary attention by the exercise of his normal activities, and this by the use of material objects, by dealing with things not with written symbols. Observe that I say written symbols. The kindergarten occupations and games may be regarded as highly symbolical. With what qualities the childish imagination invests objects cannot be told nor to what extent. Imagery is characteristic of this period.

The kindergarten can no longer be regarded as an experiment. It has come to stay. Already other cities and towns in New Hampshire have established schools of this kind. Manchester cannot afford to be behind hand. I urge upon you, gentlemen, the serious consideration of incorporating kindergartens into our public school system.

One year ago I advocated the extension of manual training in our schools. The same arguments that support the kindergarten will, to a certain extent, support manual training. Power comes alone from accomplishment. A man may theorize through all eternity and still be theorizing, and, unless he has done something, the world will be no better for his

existence. Executive power is developed by manual training schools not only along the line of work of the manual training school but also along other lines so far as the habit of doing is formed. I believe that the extension of manual training privileges to the third and fourth divisions of the grammar school would be a great benefit to pupils and the schools.

In conclusion, the basis of a good school is a good teacher. President Garfield said that a college was Mark Hopkins on one end of a log and himself on the other end. Four-fifths of the success of a school is due to the personality of the teacher in charge. As is the teacher so is the school.

The continued prosperity of our school system depends not upon the course of study, not upon accommodations, not upon homes, not upon pupils, but upon the character and fitness of those placed in charge of the pupils.

To the general high average of our teaching force is due the excellence of our system, and to maintain this high average is a solemn duty of all school officials.

Respectfully submitted,
CHARLES W. BICKFORD,
Superintendent.

APPENDIX.

- I. POPULATION, ETC.
- II. SCHOOLHOUSES.
- III. SCHOOLS.
- IV. TEACHERS.
- V. ATTENDANCE TABLES.
- VI. TRUANCY.
- VII. FINANCE.
- VIII. SCHOOL YEAR, 1901-1902.
- IX. HIGH SCHOOL GRADUATES.
- X. WINNERS OF CLARKE PRIZES.
- XI. ORGANIZATION OF COMMITTEES, 1903.
- XII. LIST OF TEACHERS, 1903.
- XIII. SCHOOL YEAR, 1902-1903.
- XIV. HIGH SCHOOL COURSE OF STUDY.

APPENDIX.

STATISTICS.

I.—Population.

Population of the city by last census, 1900	56,987
Legal school age, 5 to 21.	

II.—Schoolhouses.

Number of schoolhouses in use	24
Number of schoolhouses not in use	0
Number of schoolrooms used for day schools	*131
Number of rooms used for High-school classes	15
Number of rooms used for Grammar schools	34
Number of rooms used for Middle schools	†28
Number of rooms used for Primary schools	‡46
Number of rooms used for Partially Graded schools	1
Number of rooms used for Ungraded schools	5
Number of rooms used for Manual Training schools	2

III.—Schools.

(All for both sexes).

Number of High school buildings	1
Number of combined Grammar and lower grade (Middle and Primary) schools	13
Number of combined Middle and Primary schools	4
Number of schools all Primary grade	1
Number of Ungraded schools	5

IV.—Teachers

Male teachers in the High School	5
Female teachers in the High school	11
Female teachers in Training school	2

* Average of 29 for year.

† Average of 27 for year.

‡ Average of 45 for year.

Male teachers in the Grammar schools	7
Female teachers in the Grammar schools	(a) 35
Female teachers in the Middle schools	28
Female teachers in the Primary schools	(b) 46
Male teachers in the Partially Graded schools	1
Female teachers in the Ungraded schools	5
Male teachers in the Manual Training school	2
Special teachers	3
Average number of male teachers	17
Average number of female teachers	125
Total average number of teachers in day schools	142
Male teachers in the evening schools	6
Female teachers in the evening schools	11
Male teachers in the evening Drawing schools	2
Average number of male teachers in the evening Drawing schools .	2

(a) Six of the 33 are master's assistants.

(b) Average for year, 45.

V.—TABLE SHOWING THE ATTENDANCE UPON THE VARIOUS DAY SCHOOLS FOR THE YEAR 1901—1902.

SCHOOLS.	*Whole number belonging.		Average membership.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
	Boys.	Girls.				
High School.....	133	255	330	373	95.6	George H. Libby, Master. G. I. Hopkins, Sub-master. Harry N. McLaren, Hiram A. Stearns, Allan E. Herrick, Nellie Pickering, Florence M. Locke, Theresa B. Stanton, Mary J. Wellington, Ethel I. Cummings, Sara Hunt, Annie W. Colby, Mary H. Dowd, Grace M. Page, Winona M. Martin, Elsie D. Fairbanks, } Assistants.
GRAMMAR SCHOOLS.						
Franklin-street, First Division	16	18	29	28	95.0	{ Isaac Huse, Jr., Master. Alice C. Taggart, Carrie E. Holt, Carrie E. Head, Nellie C. Parker, } Assistants.
“ Second “	20	20	35	32	92.8	
“ Third “	22	22	36	33	91.0	
“ Fourth “	23	20	37	33	88.1	
Franklin-street totals.....	81	89	137	126	91.2	
Lincoln-street First Division	27	24	49	46	94.1	{ Fred L. V. Spaulding, Master. Annie W. Patten. Belle R. Daniels, Mabel J. Brickett, Mary F. Barnes, } Assistants.
“ Second “	21	28	44	41	92.8	
“ Third “	25	27	49	45	92.7	
“ Fourth “	32	27	54	49	90.0	
Lincoln-street totals.....	105	106	196	181	92.3	

Ash-street, First Division.....	14	20	33	31	94.5	{ Edgar D. Cass, Master. Anelia L. Graupner, Emma L. McLaren, } Assistants. Lora E. Hill. Ellen E. Connor, }
	26	21	35	33	94.2	
	31	41	28.1	47	92.6	
	33	22	51	47	92.6	
Ash-street totals	104	91	163	152	93.2	{ George Winch, Master. Florence M. Ward. E. Maria Dickey, } Assistants. Ellen E. McKean, Millie S. Morse, }
Varney, First Division.....	27	29	48	47	97.0	
“ Second “	28	18	44	42	96.2	
“ Third “	28	26	47	45	96.0	
“ Fourth “	55	48	46	43	94.0	{ John Gault, Master. Josephine W. Page. Luna A. Whitlock, } Assistants. Alta C. Willand, Eva F. Tuson, }
Varney school totals	138	121	185	177	95.7	
Webster-street, First Division.....	27	18	41	39	91.7	
“ Second “	18	22	41	38	93.3	
“ Third “	21	25	39	37	95.7	{ Lizzie A. Burns. Lelia A. Brooks, } Assistant. Cora M. Farnet, }
“ Fourth “	19	17	34	32	94.3	
Webster-street totals.....	85	82	155	146	94.2	
Bakersville, First and Second Divisions.....	13	18	34	32	94.3	
“ Fourth Division.....	7	19	28	25	89.7	{ William H. Huse, Master. Ella F. Barker. Olive A. Rowe, } Assistants. Kate E. Barchelder, }
Bakersville totals.....	20	37	62	57	91.9	
Hallsville, First and Second Divisions.....	28	21	44	39	88.4	
“ Third Division.....	23	28	45	42	93.4	
“ Fourth “	27	26	46	42	90.1	{ Louis H. Bailey, Master. Lillian F. Crowther, Assistant. Barbara B. Joy. Mary E. McLaren, 2 terms. Helen Morrison. Cora B. Gilford.
Hallsville totals	78	75	135	123	91.1	
Rimmon, First, Second and Third Divisions.....	10	14	19	18	94.1	
“ Fourth Division.....	6	12	20	19	92.9	
Rimmon school totals.....	16	26	39	37	94.9	{ Barbara B. Joy. Mary E. McLaren, 2 terms. Helen Morrison. Cora B. Gilford.
Wilson, First and Second Divisions.....	14	25	45	43	95.7	
“ Third Division	16	18	35	33	94.7	
“ Fourth “	22	29	38	36	93.6	
Wilson school totals.....	52	72	118	112	94.9	

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—Continued.

SCHOOLS.	*Whole number belonging.		Average membership.	Average daily attendance.	Percent of daily attendance.	TEACHERS.
	Boys.	Girls.				
Parker, Fourth Division.....	15	10	33	31	94.3	Mary E. Moulton, Mary W. Mitchell, Lizzie P. Gove, Mary A. Buzzell.
Main-street, Fourth Division.....	44	46	40	38	94.6	
Straw, Fourth Division.....	8	16	21	19	92.2	
Amoskeag, Grammar Divisions.....	14	16	22	19	85.6	
GRAMMAR SCHOOL TOTALS.....	700	781	1306	1218	93.3	
MIDDLE SCHOOLS.						
Franklin-street, Higher.....	26	16	37	34	92.0	Alice M. Lamprey, Amy K. Northrup, Etta L. Stearns, Bertha A. Allen, Grace Whittemore, 1 term, Emma J. Cooper, Kittie J. Ferren, Mary J. Walsh, Marcia M. Moore, Edith L. Hammond, Jean Gillan, Mary L. Heath, Mary L. Ayer, Winnifred W. Hall, Mary A. Seavey, Harriet H. Richardson, Florence Richardson, Lura B. Gage, Elizabeth M. Flanders, 2 terms, Gertrude H. Brooks, Lettie M. Smith, Mary S. Richardson, Annabel Emerson, Fannie D. Moulton.
" " Lower.....	28	23	36	32	89.4	
Lincoln-street, Higher.....	34	40	49	45	92.6	
" " Lower.....	37	26	45	43	94.9	
Ash-street, Higher.....	36	37	23	22	94.7	
" " Higher.....	23	22	43	43	92.5	
" " Lower.....	16	29	44	42	96.4	
Varney, Higher.....	29	26	49	47	96.4	
" " Lower.....	20	17	37	35	93.4	
Webster-street, Higher.....	35	30	46	44	95.1	
" " Lower.....	22	13	34	30	88.7	
Bakersville, Mixed.....	19	29	45	41	90.0	
Hallsville, Higher.....	32	25	47	44	93.3	
" " Lower.....	21	15	27	25	92.5	
Rimmon, Mixed.....	21	27	44	41	93.4	
Wilson, Higher.....	22	30	44	41	93.8	
" " Lower.....	21	24	43	40	92.7	
Parker, Higher.....	13	13	31	29	94.0	
" " Lower.....	19	19	30	28	93.2	
Straw, Middle and Grammar.....	18	9	32	27	91.2	
" " Mixed Middle.....	26	21	29	27	83.9	
Amoskeag, Mixed.....	33	33	37	33	90.4	
Spring-street, Higher.....					88.9	
" " Lower.....						

Merrimack-street, Lower.....	24	28	35	31	88.3	C. E. Wing, Principal.
Main-street, Higher.....	25	26	44	41	93.2	Grace A. Phillips, Assistant.
" Lower.....	23	24	46	43	93.6	Mary W. Clement.
Pearl-street, Lower.....	24	20	37	35	93.4	Lottie M. Clement.
MIDDLE SCHOOL TOTALS.....	047	624	1,092	1,019	92.5	Mary G. Tynan.
PRIMARY SCHOOLS.						
Franklin-street, Higher.....	31	23	41	38	91.6	Flora M. Walker.
" Lower.....	24	43	40	35	88.0	Susie L. Dodge.
Lincoln-street, Higher.....	32	21	48	44	92.6	Theodora Richardson.
" Mixed.....			47	44	93.7	Annie G. Hill, 2 terms.
" Lower.....	41	27	45	40	89.0	Hulda C. Graupner.
Ash-street, Higher.....	18	22	38	35	91.5	May F. Nutt.
" Lower.....	30	32	44	40	89.1	Bertha A. Young.
Varney, Higher.....	37	24	45	43	96.5	Gertrude Adams.
" Lower.....	36	31	44	41	91.2	Annie E. Walsh.
Webster, Higher.....	27	36	43	40	93.6	Mary E. Murphy.
" Lower.....	38	38	46	42	91.5	Mathel C. Henry.
Bakersville, Higher.....	33	20	45	38	85.1	Helen Townsend.
" Mixed.....	25	31	42	37	89.1	Angusta S. Downs.
" Lower.....	44	44	48	38	79.5	S. Isetta Locke.
Hallsville, Higher.....	31	27	45	42	93.6	Kathryn D. McKeon.
" Lower.....	43	42	61	55	89.6	Bertha L. Kemp.
" Lower.....	47	54	61	53	87.2	E. Alfreda Hall.
" Lower.....	8	3	34	31	90.7	Gladys M. Baker, 1 term.
Rimmon, Mixed.....	25	16	32	27	92.2	Annie R. Corson.
" Higher.....	16	16	29	27	88.1	Clara V. Clement.
" Lower.....	22	32	32	29	81.5	Martha J. Kennedy, 2 terms.
Wilson, Higher.....	39	36	45	41	91.2	Hattie S. Tuttle.
" Lower.....	27	20	43	40	92.2	Blanche E. Hicken.
" Lower.....	44	34	46	40	87.8	Katharine A. Frain.
Parker, Higher.....	20	23	46	42	91.4	Mary E. McLaren, 1 term.
" Lower.....	24	23	36	33	90.9	Bertha V. Franks, 2 terms.
" Lower.....	35	32	41	37	91.0	Florence L. Abbott.
Straw, Higher.....	27	27	47	44	94.4	Gertrude M. Porter.
" Lower.....	33	26	45	42	93.1	Eda M. Barr.
" Lower.....	37	29	34	31	89.5	Blanch M. Folsom.
Amoskeag, Mixed.....	31	21	40	32	79.5	Maudie E. Winegar, 2 terms.
Spring-street, Higher.....	32	25	39	35	88.9	Nellie M. James.
" Lower.....	43	40	38	33	87.0	Florence H. Moore.
Merrimack-street, Higher.....	27	32	42	37	88.1	Edith M. Stebbins.
" Lower.....	65	50	45	36	80.5	Marion F. Partridge.
" Lower.....						Nellie I. Sanderson.
" Lower.....						Lizabel Savory.
" Lower.....						(C. E. Wing, Principal.
" Lower.....						Grace A. Phillips, Assistant.

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—Continued.

SCHOOLS.	*Whole number belonging.		Average membership.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
	Boys.	Girls.				
Main-street, Higher.....	26	22	47	43	91.9	M. Minnie Sturtevant.
" " Mixed.....	20	27	42	40	93.2	Hattie O. Willard.
" " Mixed.....	29	24	49	46	94.7	Kate T. Clarke.
" " Lower.....	25	24	49	45	91.3	Elizabeth Walsh.
" " Lower.....	48	41	42	37	89.2	Sarah Price.
Pearl street, Higher.....	23	25	48	44	91.8	Nelle M. Smith.
" " Lower.....	21	20	43	43	95.0	Florence Abbott.
" " Lower.....	44	23	41	36	88.6	Georgia M. Cheney.
Lowell-street, Mixed.....	28	6	20	18	87.3	Helen M. Morrill.
Golf's Falls, Falls, Mixed.....	30	24	41	38	94.0	{ Maud M. Greaney, 2 terms. Edith A. Murphy, 2 terms.
PRIMARY SCHOOL TOTALS.....	1,420	1,293	1,960	1,768	90.2	
PARTIALLY GRADED SCHOOLS.						
Golf's Falls.....	15	17	33	31	93.7	Percy N. Folsom.
UNGRADED.						
Stark District.....	14	13	18	14	77.9	Inez M. Warren.
Harvey District.....	24	7	24	21	86.4	Emma J. Eln.
Youngsville.....	21	21	26	22	85.8	Lara K. Kimpton.
Webster's Mills.....	6	10	12	11	88.6	Josephine L. Riddle.
Mosquito Pond.....	13	9	15	12	80.5	Anabelle F. Flanders.
UNGRADED SCHOOL TOTALS.	78	60	95	80	84.2	
Aggregate totals for 1902.....	3,413	3,010	4,876	4,480	91.9	
Aggregate totals for 1901.....	29,18	2,890	4,552	4,127	90.5	

*Exclusive of duplicate enrollment, no account being made of pupils received by promotion or transfer from other of the city schools.

DAY SCHOOLS.

Summary of attendance upon the several grades of public day schools for the year 1901-1902.

GRADES.	Whole number of different pupils.		Average membership.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
High	193	235	390	373	95.6
Grammar	760	781	1,306	1,218	93.3
Middle	647	624	1,092	1,010	92.5
Primary	1,420	1,293	1,960	1,768	90.2
Partially graded	15	17	33	31	93.7
Ungraded	78	60	95	80	84.2
Totals, 1902	3,113	3,010	4,876	4,480	91.9
Totals, 1901	2,918	2,890	4,552	4,127	90.5

EVENING SCHOOLS.

Summary of attendance upon the several grades of public evening schools for the year 1901-1902.

SCHOOLS.	Whole number of different pupils.		Average membership.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
Spring street	162	.....	78	61	80.5
Franklin street .....	.....	83	67	60	90.0
Rimmon	105	49	125	102	81.6
Drawing schools { Mechanical } { Architectural }	48	.....	33	27	82.4
Totals, 1902	315	132	303	250	82.5
Totals, 1901	266	122	251	189	75.3

Evening School Teachers.

Charles E. Cochran, principal at Spring-street school, for boys.

Assistants—A. W. Rowell, I. E. Forbes, Annie B. Angell, and Minnie Sullivan.

Honorie J. Crough, principal of Franklin-street, for girls.

Assistants—Maggie Linen, Margaret McDermott, Mary E. Paige, Mary A. Walker.

Arthur W. Morgan, principal of Rimmon school, for both sexes.

Assistants—William J. Mooar, N. Biron, Mary B. Thompson, Ethel A. Nicholson, Maude Winegar, Bertha V. Franks.

Evening Drawing Teachers.

John M. Kendall and Henry W. Allen,

TRAINING SCHOOL.

Graduated.		Graduated.	
Annie B. Angell	June, '98.	Bertha A. Allen.	June, '00.
Mary E. McLaren,	" "	Eda M. Barr.	" "
Grace A. Phillips.	" "	Bertha V. Franks.	" "
Ede B. Quimby.	" "	Lora E. Hill.	" "
Flora M. Walker.	" "	Gertrude Porter.	" "
Elizabeth F. Walsh.	" "	Amy E. Davison.	Jan., '01,
Florence H. Mooar.	Jan. 27, '99.	Lizzie M. Flanders.	" "
Ethel A. Nicholson.	" "	Edith A. Murphy.	" "
Sarah Price.	" "	Carlena A. Savory.	" "
Annie E. Walsh.	" "	Grace Whittemore.	" "
Mathel C. Henry.	June, '99	Florence M. Francis.	June, '01.
Mae L. Lovejoy.	" "	Martha J. Kennedy.	" "
Kathryn McKeon.	" "	Anabelle F. Landers.	" "
Elorence M. Ward.	" "	Maude E. Winegar.	" "
		Bertha M. Fogg.	June, '02.
		Marjorie S. Woodbury.	" "

Entered.		Entered.	
Lena E. Bower.	Sept., '01	Bessie J. Bartlett.	Sept., '02.
Ethel F. Currier.	" "	Mary E. Campbell.	" "
Helen F. Lyons.	" "	Nellie F. Dunnington.	" "
Ada B. Morse.	" "	Alice B. Morrill.	" "
		Agnes Shey.	" "
		Agnes M. Woodbury.	" "

GENERAL SUMMARY.

The following table presents the main features of interest pertaining to the attendance upon the public schools for the last five years. Similar tables may be found in reports for 1896 and 1901.

YEARS,	Average number of schools.	Average number of teachers employed.*	Enrolled in public day schools.	Average membership.	Average daily attendance.	Percentage of daily attendance.	Average attendance evening schools.	Graduated from grammar schools.†	Passed grammar schools for high school.†	Entered high school.	Graduated from high school.	Average number belonging to high school.
1898.....	121	128	5,802	4,425	4,070	92.0	195	200	191	145	51	378
1899.....	123	130	5,717	4,399	3,978	90.4	146	180	168	134	73	409
1900.....	126	135	5,462	4,388	3,998	91.8	179	225	214	152	72	380
1901.....	127	137	5,808	4,552	4,127	90.5	191	189	179	137	69	379
1902.....	129	142	6,123	4,876	4,480	91.9	250	221	211	159	62	390

*Including special teachers, principals, assistants, etc.

†And the A class in suburban schools.

VI.—Work of Truant Officer.

DATE.	Absentees re- ported.	No. voluntar- ily returned.	No. reported caused to at- tend.	No. moved out of the city.	No. found sick and unable to attend.	No. otherwise unavoidably detained.	No. Not found.
September	316	120	88	33	17	43	10
October	228	27	173	6	12	10	.....
November	176	20	113	3	18	21	1
December	55	8	37	2	1	7	.....
January	120	11	63	4	20	19	3
February	133	16	71	4	12	27	3
March	123	2	91	1	16	12	1
April	160	10	109	4	9	23	5
May	119	21	77	2	5	12	2
June	85	10	55	3	4	12	1
Totals	1,515	245	877	62	114	186	26

DATE.	Truant's not enroll'd found on streets.	No. of school age found on streets in school hours.	No. of parents visited.	No. tempora- rily confined at the police station.	No. brought be- fore the court.	Sentenced.
September	33	100	313	1	.....	.....
October	53	282	297	1	.....	.....
November	27	203	213	.....	.....	.....
December	5	75	51	.....	.....	.....
January	27	146	167	.....	.....	.....
February	18	247	196	.....	1	1*
March	11	151	203	1	.....	.....
April	43	267	231	5	2	1
May	10	140	207	3	.....	.....
June	4	75	63	.....	.....	.....
Totals	231	1,686	1,941	11	3	.....

*And 1 suspended, sentenced.

VII.—FINANCES.—1902.

ITEMS OF ACCOUNT.	Appropriations.	Expenditures.
Salaries of teachers.....	\$91,000.00	\$93,779.80
Books and stationery.....	75.00	44.66
Free text books and supplies.....	6,000.00	6,160.77
Furniture and supplies.....	1,200.00	1,187.38
Repairs.....	10,000.00	9,996.66
Care of rooms.....	6,500.00	6,522.13
Fuel.....	8,800.00	10,304.02
Printing and advertising.....	300.00	283.18
Contingent expenses.....	2,500.00	2,507.19
Evening common schools.....	1,200.00	1,155.35
Evening drawing schools.....	250.00	252.00
Manual training.....	500.00	498.02
Sewing material.....	230.00	250.00
Totals.....	\$128,575.00	\$132,941.16

COST OF CITY SCHOOLS.

Expenditures \$132,941.16

Salaries.

Members of the school board	220.00
Clerk of board	150.00
Superintendent of schools	2,300.00
Truant officer	850.00
Total	\$136,461.16

Receipts.

Literary fund	2,834.50
Tuition and free text-books*	1,732.10
	<hr/>
	4,566.60

Net amount raised by taxation \$131,894.56

The city valuation for 1902 is \$33,044,334, and hence the rate of school tax for the year is \$131,894.56, divided by \$33,044,334, or .0039. Last year the rate was .0038.

* School tax from Londonderry, Bedford, and Goffstown included, \$143.75.

VIII.—School Year, 1901-1902.

Fall term of fourteen weeks opened September 9, 1901; closed December 13, 1901. Vacation of two weeks.

Winter term of twelve weeks opened December 30, 1902; closed March 21, 1902. Vacation of two weeks.

Spring term of eleven weeks opened April 7, 1902; closed June 20, 1902. Vacation of eleven weeks.

Number of school days in the year, 185.

IX.—High School Graduation.

PROGRAM.

Salutatory. "The place of the Historical Novel in Fiction"
Emilie E. Goodale.

Cantata. "The Old Clock on the Stairs"
Words by *Henry W. Longfellow*.
Music by *Frederic H. Pease*.

Solos by Misses Colby and Prescott.
Violin accompaniment, Miss Crombie.
Class Pianist, Miss Kimball.

Under the direction of Professor Eben F. Richardson.

Class Prophecy Isabel Barlow

Girls' Chorus. "Song at Sunrise."
Charles Fonteyn Manney.

Solo, Miss Togus.

Valedictory. "Home, Sweet Home." Alice Maude Togus

Presentation of Diplomas.

Class Ode.

Class Ode.

WORDS BY DAISY E. FLANDERS.

MUSIC BY CHARLES J. NOLL.

We linger here in these dear halls,
Where fondest memories cling,
With forward-looking thoughts to know
What future days will bring.
The years will come, the years will go,
As years have done before,
But nothing in the future can
The pleasure here restore.

These four short years too soon have fled.
 If sweet the day, soon spent,
 But we can never once forget
 The joys these days have lent.
 And always through the coming years,
 We'll cherish these most dear
 By which we hold in closer grasp
 The friends we've smiled with here.

Graduates.

Isabel Barlow.	Freeman Brackett Hazen.
Alice Leone Barnard.	Arthur S. Healy.
Bessie June Bartlett.	Harry Cecil Jones.
Rena Pearl Bartlett.	Avis Mildred Kemp.
Florence Emma Blakeley.	Nancy B. Kimball.
Mary Ethelreda Campbell.	Elizabeth Moulton Langmaid.
Elmer Augustus Campbell.	Harlan A. Marshall.
Grace H. Chapple.	Reginald H. Marston.
Benjamin M. Chandler.	Joseph Walter McElroy.
Edith Williams Clark.	Edna L. Merrill.
Ruth Libby Clark.	Alice Bertha Morrill.
Emma Louise Clough.	Lucille W. Nicholson.
Ethel Louise Colby.	Hardy Astor Nigo.
Gertrude M. Connor.	Charles J. Noll.
Margaret Cotter.	Ethel Evelyn Parmenter.
Ida Crombie.	Stephen Ward Pattee.
Elizabeth E. DeMoulpied.	Ula G. Perra.
Nellie Florence Dunnington.	Philip Wilfred Place.
Lillian Pearl Durgin.	Mary Carlena Prescott.
Mary Abbie Durgin.	Perley W. Royal.
Martin Parker Farmer.	Walter Leslie Sawyer.
Ralph Corydon Fitts.	William Bernard Severance.
Daisy Elvira Flanders.	Eleanor Jane Singleton.
Annie Margaret Fradd.	Una J. Sleeper.
Alice Stetson Furber.	Florence Marion Thayer.
George Choate Furness.	Bernice Morrison Thompson.
Emile E. Goodale.	Alice Maude Togs.
Grace May Goodrich.	Lloyd P. Upton.
Mary Louise Gray.	Margareta Adelia Vittum.
Jennie Ethel Grundy.	John Joseph Walsh.
Marion Gertrude Hayes.	Agnes McDuffie Woodbury.

X.—Winners of Clarke Prizes.

FOR EXCELLENCE IN ELOCUTION AT CONTEST, JANUARY 29, 1902.

First prize, \$25, Helen Raymond Carter.

Second prize, \$20, Thomas A. Lane.

Third prize, \$10, E. Louise Clough.

Fourth prize, \$5, Helen M. Vittum.

XI.—Organization, 1903.

SCHOOL COMMITTEE.

EUGENE E. REED, MAYOR.

Chairman, *ex officio*.

E. EDWIN CHASE,

President of Common Council, *ex officio*.WARD 1. Elliot C. Lambert.
Walter B. Heath.WARD 6. Eugene B. Dunbar.
Harry L. Davis.WARD 2. J. W. Johnston.
Will C. Heath.WARD 7. Edward B. Woodbury.
Edson S. Heath.WARD 3. George D. Towne.
Louis E. Phelps.WARD 8. Walter B. Mitchell.
Benjamin Price.WARD 4. Nathaniel L. Colby.
I. N. Cox.WARD 9. R. Emmet Walsh.
Alaric Gauthier.WARD 5. John T. Kelley.
John F. Lee.WARD 10. Mark E. Harvey.
Harry H. Burpee.

VICE-CHAIRMAN OF THE BOARD.

GEORGE D. TOWNE.

CLERK OF THE BOARD.

ELLIOT C. LAMBERT.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

CHARLES W. BICKFORD.

SUPERINTENDENT'S CLERK.

FANNIE L. SANBORN.

TRUANT OFFICER.

CURTIS W. DAVIS.

STANDING COMMITTEES.

Finance.—Mayor Reed, Messrs. Chase, Lambert, Woodbury and Walsh.

Salaries.—Messrs. Kelley, Cox and Burpee.

Text Books.—Messrs. Towne, Phelps, Cox and Woodbury.

Music.—Messrs. W. C. Heath, Price and Lee.

Drawing.—Messrs. E. S. Heath, Johnston and Dunbar.

Manual Training.—Messrs. Phelps, W. B. Heath and E. S. Heath.

Examination of Teachers.—Messrs. Colby, Johnston and Mitchell.

Fuel and Heating.—Mr. Burpee, Mayor Reed, Messrs. Chase, Harvey, Lee.

Repairs.—Messrs. Davis, Walsh and Gauthier.

Attendance.—Messrs. Price, Gauthier and W. C. Heath.

Health.—Messrs. Dunbar, Davis and Mitchell.

SUB-COMMITTEES.

High School.—Messrs. Towne, Phelps, Lambert, Walsh and W. B. Heath.

Franklin-street.—Messrs. Woodbury, Davis and Lee.

Spring-street.—Messrs. Kelley, Dunbar and Woodbury.

Lincoln-street and Youngsville.—Messrs. Colby, Lee and W. C. Heath.

Ash-street and Webster's Mills.—Messrs. Phelps, W. C. Heath and Gauthier,

Webster-street and Stark.—Messrs. Burpee, Towne and Johnston.

Bakersville and Mosquito Pond.—Messrs. W. B. Heath, Johnston and Mitchell.

Varney.—Messrs. Mitchell, Walsh and Cox.

Hallsville and Harvey.—Messrs. Davis, Harvey and Price.

Rimmon.—Messrs. Gauthier, E. S. Heath and Towne.

Training school.—Messrs. Lambert, Woodbury and Phelps.

Main-street.—Messrs. Walsh, W. B. Heath and Burpee.

Parker.—Messrs. Price, Burpee and E. S. Heath.

Wilson.—Messrs. Dunbar, Gauthier and Harvey.

Straw.—Messrs. E. S. Heath, Kelley and Colby.

Amoskeag.—Messrs. W. C. Heath, Phelps and Kelley.

Goff's Falls.—Messrs. Harvey, Mitchell and Dunbar.

Pearl-street.—Messrs. Johnston, Cox and Walsh.

Highland.—Messrs. Cox, Price and W. B. Heath.

Evening Schools.—Messrs. Lee, Colby and Davis.

XII.—List of Teachers.

HIGH SCHOOL.—BEECH STREET.

Master. George H. Libby.

Sub-Master. George I. Hopkins.

Assistants. Harry N. McLaren.
Hiram A. Stearns.
Allan E. Herrick.
Nellie Pickering.
Florence M. Locke.
Theresa B. Stanton.
Mary J. Wellington.
Ethel I. Cummings.
Sara Hunt.
Annie W. Colby.
Mary H. Dowd.
Winona M. Martin.
Elsie D. Fairbanks.
Annie M. Vose.
Edith M. Pierce.

FRANKLIN-STREET SCHOOL.

Grammar Grades.

Master. Isaac Huse, Jr.
Master's Assistant. Alice C. Taggart.
Assistants. Carrie E. Hoit.
Carrie E. Head.
Nellie C. Parker.

Lower Grades.

Higher Middle. Alice M. Lamprey.
Lower Middle. Amy K. Northrup.
Higher Primary. Grace M. Whittemore.
Lower Pirmary. Susie L. Dodge.

LINCOLN STREET SCHOOL.

Grammar Grades.

Master. Fred L. V. Spaulding.
Master's Assistant. Annie W. Patten.
Assistants. Belle R. Daniels.
Mabel J. Brickett.
Mary F. Barnes.

Lower Grades.

Higher Middle. Etta L. Stearns.
Lower Middle. Bertha A. Allen.

Higher Primary. Theodora Richardson.
Lower Primary. Hulda C. Graupner.
Lower Primary (Temporary). Carlena A. Savory.

ASH STREET.

Grammar Grades.

Master. Edgar D. Cass
Master's Assistant. Amelia L. Graupner.
Assistants. Emma L. McLaren.
Lora E. Hill.
Ellen E. Connor.

Lower Grades.

Higher Middle. Emma J. Cooper.
Mixed Middle. Marjorie S. Woodbury.
Lower Middle. Josephine C. Ferren.
Higher Primary. May F. Nutt.
Lower Primary. Bertha A. Young.

WEBSTER-STREET SCHOOL.

Grammar Grades.

Master. John Gault.
Master's Assistant. Josephine W. Page.
Assistants. Luna A. Whitlock.
Alta C. Willand.
Eva F. Tuson.

Lower Grades.

Higher Middle. Edith Hammond.
Lower Middle. Jean Gillan.
Higher Primary. Mary E. Murphy.
Lower Primary. Mathel C. Henry.

VARNEY SCHOOL.

Grammar Grades.

Master. George Winch.
Master's Assistant. Florence M. Ward.
Assistants. Esther M. Dickey.
Ellen E. McKean.
Millie S. Morse.

Lower Grades.

Higher Middle. Mary J. Walsh.
Lower Middle. Marcia M. Moore.
Higher Primary. Gertrude Adams.
Lower Primary. Annie E. Walsh.

HALLSVILLE SCHOOL.

Grammar Grades.

Master. William H. Huse.
Master's Assistant. Ella F. Barker.
Assistants. Olive A. Rowe.
Mary L. Ayer.

Lower Grades.

Higher Middle. Flora M. Walker.
Lower Middle. Clara V. Clement.
Higher Primary. Bertha L. Kemp.
Lower Primary. E. Alfreda Hall.
Assistant. Amy E. Davison.
Lower Primary. Annie R. Carson.
Assistant. Ethel A. Nicholson.
Lower Primary. Martha J. Kennedy. (Cody's block).

BAKERSVILLE SCHOOL.

Grammar Grades.

Principal. Lizzie A. Burns.
Assistants. Lelia A. Brooks.
Cora M. Farmer.

Lower Grades.

Mixed Middle. Mary L. Heath.
Higher Primary. Augusta S. Downes.
Mixed Primary. S. Izetta Locke.
Lower Primary. Kathryn D. McKeon.

RIMMON SCHOOL.

Grammar Grades.

Principal. Louis H. Bailey (Grammar classes).
Assistant. Lillian F. Crowther.

Lower Grades.

Mixed Middle. Mary A. Seavey.
Higher Primary. Hattie S. Tuttle.
Lower Primary. Blanche E. Hicken.
Lower Primary. Katherine A. Frain.

WILSON SCHOOL.

Grammar Grades.

Principal. Barbara B. Joy.
Assistants. Mary E. McLaren.
Hellen Morison.
Cora B. Gilford.

Lower Grades.

Higher Middle. Harriet H. Richardson.
Lower Middle. Florence Richardson.
Higher Primary. Bertha V. Franks.
Lower Primary. Florence L. Abbott,
Lower Primary. Gertrude M. Porter.

STRAW SCHOOL.

Grammar Grades.

Principal. Lizzie P. Gove.

Lower Grades.

Higher Middle. Gertrude H. Brooks.
Lower Middle. Lettie M. Smith.
Higher Primary. Nellie M. James.
Lower Primary. Florence H. Moore.
Lower Primary. Edith M. Stebbins.

TRAINING SCHOOL.

Merrimack street, corner of Union.

Principal. Caroline E. Wing.
Head Assistant. Grace A. Phillips.

The principal is also assisted by the sub-teachers, i. e., members of the training class. The school embraces the first four years of school work, in the following grades: Lower Primary, Higher Primary, and Lower Middle. There are four rooms, two of lower primary grade.

SPRING-STREET SCHOOL.

Principal. Annabel Emerson, Higher Middle.
Lower Middle. Fannie D. Moulton.
Mixed Middle. Helen Morrill.
Higher Primary. Nellie I. Sanderson.
Lower Primary. Lizabell Savory.

MAIN-STREET SCHOOL.

Principal. Mary W. Mitchell, Grammar Grade.
Higher Middle. Mary A. Clement.
Lower Middle. Lottie M. Clement.
Higher Primary. M. Minnie Sturtevant.
Higher Primary. Hattie O. Willand.
Lower Primary. Kate T. Clarke.
Lower Primary. Elizabeth F. Walsh.
Lower Primary. Sarah Price.

PEARL-STREET SCHOOL.

Principal. Mary G. Tynan, Higher Middle.
Lower Middle. Nellie M. Smith.
Higher Primary. Florence Abbott.
Lower Primary. Georgia M. Cheney.

PARKER SCHOOL.

Principal. Mary E. Moulton, Grammar.
Higher Middle. Lura B. Gage.
Mixed Middle. Elizabeth M. Flanders.
Higher Primary. Eda M. Barr.
Lower Primary. Blanche M. Folsom.
Lower Primary. Maude E. Winegar.

PARTIALLY GRADED SCHOOLS.

Amoskeag. Mary A. Buzzell, Grammar and Middle.
Middle and Primary. Mary S. Richardson.
Lower Primary. Marion F. Partridge.
Highland. Blanche L. Bachelder, Grammar and Middle.
Goffe's Falls. Percy N. Folsom, Grammar.
Middle Grades. Maud M. Greaney.
Primary Grades. Edith A. Murphy.
Primary Grades. Helen Townsend.

UNGRADED SCHOOLS.

Stark. Inez. M. Warren.
Harvey. Emma J. Ela.
Youngsville. Lura K. Kimpton.

Webster's Mills. Josephine L. Riddle.
Mosquito Pond. Anabelle F. Landers.

SPECIAL TEACHERS.

Music. Eben F. Richardson, Maude E. Brown.
Drawing. J. Warren Thyng.
Manual Training. Fred E. Browne.
Assistant. Joseph F. Carter.

JANITORS.

High School.

Charles F. Jack. Engineer, George H. Jack.

Franklin-street and Training Schools.

Charles H. Scoby.

Lincoln-street School.

William Stevens.

Hallsville and Wilson Schools.

William H. Newry.

Ash-street and Pearl-street Schools.

John S. Avery.

Webster-street and Straw Schools.

William J. Powers.

Spring-street and Lowell-street Schools.

S. H. Batchelder.

Bakersville School.

Edwin N. Baker.

Varney School.

Joseph H. Buffam.

Main-street and Parker Schools.

William F. Connor.

Rimmon School.

Joseph Chalifoux.

Amoskeag School.

Charles H. Corey.

Highland and Gaff's Falls School.

H. F. Miller

XIII.—School Year, 1902-1903.

Fall term opened September 8, 1902; closed December 19, 1902. Vacation of two weeks.

Winter Term of twelve weeks opened January 5, 1903, closes March 27, 1903. Vacation of two weeks.

Spring term opens April 13, 1903; closes June 26, 1903. Vacation of ten weeks.

XVI.—High School Course of Study.

ENGLISH.

FIRST YEAR.

1. Scott & Denney to Chapter III. Read: *Evangeline*, *Sketch Book*, *House of the Seven Gables*, *Miles Standish*, *Twice Told Tales*, *Gulliver's Travels*.

SECOND YEAR.

2. Scott & Denney from Chapter III. to end of book. Read: *Merchant of Venice*, *Alhambra*, *Lady of the Lake*, *Julius Caesar*, *Revolt of the Tartar Tribe*, *Ivanhoe*, *Woodstock*, *Life of Nelson*, *Last of the Mohicans*, *Sir Roger de Coverly*.

2*a*. *First Semester*.—From college requirements for 1902-1905. *Ivanhoe*, *The Vision of Sir Launfal*, *Sir Roger de Coverly Papers*, *Silas Marner*, *Julius Caesar*.

Second Semester. Considerable collateral reading, *Elementary English Composition*, *Scott & Denney*.

THIRD YEAR.

3. Genung's *Rhetoric*, words and sentences. Read: *Silas Marner*, *As You Like It*, *Marmion*, *David Copperfield*, *Lowell's Poems*, *Idylls of the King*, *Vicar of Wakefield*.

3*a*. *First Semester*.—From college requirements. Read: *The Vicar of Wakefield*, *Ancient Mariner*, *The Princess*, *The Merchant of Venice*, *Carlyle's Essay on Burns*.

Second Semester.—Considerable collateral reading, *Composition-Rhetoric*, *Scott & Denney*.

FOURTH YEAR.

4. Genung's Rhetoric completed, with additional study of paragraphs and figures. Read: Paradise Lost, Macbeth, Ancient Mariner, Chaucer, Sohrab and Rustum, Midsummer Night's Dream, Faerie Queen, The Princess, Burke's Conciliation and Taxation, Rape of the Lock, Cotter's Saturday Night, Review of English Grammar last semester.

4a. *First Semester*.—From college requirements. Read: Lycidas, Comus, L'Allegro, Il Penseroso, Burke's Speech on Conciliation, Macaulay's Essay on Milton and Addison, Macbeth.

Second Semester.—Collateral Reading, Composition-Rhetoric, Scott & Denney.

LATIN.

FIRST YEAR.

1. First Latin Book (Bennett's Foundations), Selections from easy Latin, Allen & Greenough's Grammar.

SECOND YEAR.

2. Caesar, Books I-IV, Prose Composition.

THIRD YEAR.

3. Cicero's Orations (6), Prose Composition.

3a. College Division. Virgil, Book I, II, III, Mythology and Prosody, Cicero, four orations against Cataline, Prose Composition.

FOURTH YEAR.

4. Virgil, six books, Mythology and Prosody.

4a. College Division. Virgil, Books IV, V, VI. Mythology and Prosody, Cicero's Orations, For the Poet Archias and the Manilian Law, Prose Composition.

Sight work throughout the course.

GREEK.

SECOND YEAR.

1. White's First Greek Book, Goodwin's Grammar, sight reading.

THIRD YEAR.

2. Anabasis, Books I-IV, Woodruff's Greek Prose, sight reading.

FOURTH YEAR.

3. Iliad, Books I-VI, sight reading in Odyssey, Selections from Herodotus and from Xenophon's Hellenica.

FRENCH.

SECOND YEAR.

1. Super's Reader, LeRoy, Chardenal's Grammar to Lesson 100, Guerber's Contes et Legendes. Dictation, sight reading, recounting in French.

THIRD YEAR.

2. Reading French—Worman's Grammar—Tour du Monde, Mlle. de la Seigliere, Le Cid, Poudre aux Yeux, Colomba, La Tulipe Noire, Le Bourgeois Gentilhomme, Athalie, Esther, La Belle Nivernaise, Evasion du Duc de Beaufort. French Composition, based on some of these texts.

FOURTH YEAR.

3. Hennequin's Idioms, Fables of La Fontaine, Le Pecheur d'Islande, Les Miserables, L'Abbe Constantin, Abrégés of Daily Lessons.

MATHEMATICS.

FIRST YEAR.

1. Algebra, Wells's.

SECOND YEAR.

2. Geometry—plane completed—solid commenced. Hopkins's Geometry, Wells's Geometry.

Second Semester.—Arithmetic.

THIRD YEAR.

3. Solid Geometry, completed.

3a. Second Semester.—Plane Trigonometry, Wentworth's. Surveying, Wentworth's. Field work with transit and measuring tape.

FOURTH YEAR.

4. Review of Plane Geometry, Review of Algebra, Review of Arithmetic.

GERMAN.

FIRST YEAR.

1. Conversation based upon Bernhard's "Deutsches Sprach und Lesebuch," with frequent repetition of easy colloquial sentences. A careful drill upon the rudiments of grammar, especially the inflection of nouns, pronouns, adjectives, and the more common verbs; the use of the common prepositions, and the general word order. Dictation of easy German. Reproduction of English into German, based on German already read. Translations of 50 to 75 pages of German text.

SECOND YEAR.

2. Translation of good German literature in stories or plays—"Edelsteine," a collection of short stories by standard German authors; "Immensee," by Theodore Storm; "Der Neffe als Onkel," by Frederich Schiller; "Der Fluch der Schönhert," by Riehl; Composition based on the texts, practice in relating in German what has been read, sight translation. Part I of Joynes-Meissner's German Grammar.

THIRD YEAR.

3. Translation continued—"Minna von Barnhelm," by Lessing; A novelette by Riehl; (perhaps) "Der stumme Ratsher"; "Aus den Staat Friedrichs der Grossen," by Freystag. A short course in German lyrics—Original composition. Part II of Joynes-Meissner's Grammar. Survey of German literature in the form of German lectures, with illustrations from works of the authors considered.

HISTORY.

FIRST YEAR.

1. Ancient History, Myers's.

SECOND YEAR.

2a. Medieval History, Myers's.

2b. Modern History, Myers's.

THIRD YEAR.

3. English History, Montgomery's.

3a. Grecian History, Myers's.

FOURTH YEAR.

4a. American History and Government or Political Economy, Mac-rane's Fiske's History.

4b. Roman History, Allen's.

COMMERCIAL COURSE.

SECOND YEAR.

1. *Second Semester*.—Book-keeping, Office Routine.

THIRD YEAR.

First Semester.—Book-keeping, Office Routine.

2. *Second Semester*.—Typewriting and Stenography.

FOURTH YEAR.

Typewriting and Stenography.

PHYSICS.

FIRST YEAR.

1. This course gives the pupil knowledge of the fundamental principles of mechanics, heat, electricity, magnetism, and sound.

Experiments are performed, and problems done to illustrate and emphasize these elementary principles. The pupil keeps notes concerning the class-room work, and makes drawings of the apparatus.

Text-book, Gage's Principles of Physics.

Two hours a week are given to laboratory exercises, and three to recitations and lectures. The pupil performs his own experiments, and keeps a careful record of each one. The experiments and recitations pertain to such general subjects as mechanics, heat, light, magnetism, and electricity.

This course fits for Harvard, or any college or technical school that requires Physics.

Text-book, Hall and Bergen's Physics.

THIRD YEAR.

2. The Advanced Physics is a continuation and further development of the Fourth Class Physics.

ZOOLOGY.

SECOND YEAR.

Needham's. Forty-five periods of laboratory work.

BOTANY,

SECOND YEAR.

Second Semester.—Gray's Lessons, Coulter's Plant Relations, Bergen's Foundations of Botany. Forty-five periods of laboratory work.

CHEMISTRY.

THIRD YEAR.

Remsen's. Sixty periods of laboratory work.

ASTRONOMY.

FOURTH YEAR.

First Semester.—Young's Elements. Weekly evening sessions for studying the constellations, and telescopic observations according to the aspect of the sky.

PHYSICAL GEOGRAPHY.

FOURTH YEAR.

Second Semester.—Tarr's Elementary. It is also an introduction to the study of geology.

GEOLOGY AND MINERALOGY.

FOURTH YEAR.

Second Semester.—Dana's Geological Story Briefly Told, and Crosby's Tables for the laboratory determination of minerals.

REPORT OF THE CHIEF ENGINEER OF
FIRE DEPARTMENT.

REPORT OF FIRE ENGINEER.

CHIEF ENGINEER'S OFFICE,
CENTRAL STATION, NO. 8 VINE STREET,
MANCHESTER, N. H., December 31, 1902.

To His Honor, William C. Clarke, Mayor, and Gentlemen of the City Council:

In compliance with the Laws and Ordinances of the city of Manchester, I herewith submit my twenty-fourth annual report, it being the fifty-sixth of this city, for the year ending December 31st, 1902.

There have been one hundred and ninety-eight (198) alarms during the year consisting of one hundred and twenty-seven (127) still alarms, and seventy-one (71) bell alarms. Of these alarms, twenty of the stills have been for brush or grass fires, five of the bell alarms, (2-2-2 out of town calls), for the same cause, and some malicious person pulled in two false bell alarms.

On the 14th of January, the most disastrous fire that has visited this city since July 8, 1870 occurred, destroying the finest and most expensive building "The Kennard" within the city limits. A general alarm was given for this fire, and assistance telephoned for from Concord and Nashua, both cities responding promptly, with engines, hose-carriages and delegations of firemen. The fire, however, was under control before their arrival, and their apparatus was not used, although their firemen helped some of our men for a time.

An inquest was held January 20th by the Board of Engineers, assisted by City Solicitor George A. Wagner and State Insurance Commissioner Col. John C. Linehan, of Concord, for the purpose of ascertaining the cause of this fire. Twenty-seven witnesses were examined, but the *actual cause* was not obtained. After considering the evidence fully the Board of Engineers gave the following: "From the evidence concerning the "fire, we find nothing definite to settle, beyond a doubt the actual cause "of the fire, but from the evidence *it is our opinion* that it was caused by "electric wires."

The value of property endangered, the amount of insurance carried on same, the amount of insurance paid, and the net losses, as far as could be ascertained, (not including chimney or brush fires), aggregate as follows:

Value of buildings	\$462,740.00	
Value of contents	223,072.00	
		<hr/>
		\$685,812.00
Insurance carried on buildings	\$278,650.00	
Insurance carried on contents	83,450.00	
		<hr/>
Damage to buildings	\$212,146.56	
Damage to contents	156,572.08	
		<hr/>
Insurance paid on buildings	\$144,688.80	
Insurance paid on contents	56,115.90	
		<hr/>
		200,804.70
		<hr/>
Net loss above insurance paid	\$170,014.70	
		<hr/>

THE MANUAL FORCE.

of the department consists of thirty-four (34) permanent men and one hundred and twenty-six (126) call men, assigned as follows:

	Call.	Perma- nent.
1 chief engineer		1
4 assistant engineers	4	
Engine Company No. 1	11	3
Engine Company No. 2	11	3
Engine and Ladder Company No. 3	15	5
Engine Company No. 4	11	3
Engine and Ladder Company No. 5	16	4
Engine and Ladder Company No. 6	16	4
Hose Company No. 1	11	1
Hose Company No. 2	10	2
Hose Company No. 3	6	2
Aërial Truck No. 1	12	3
Chemical No. 1	3	2
Spare driver		1
	<hr/>	<hr/>
	126	34

The double companies, (particularly Engine and Ladder Company No. 6), who are located in a hazardous section are wholly inadequate to do efficient service, owing to lack of numbers, as twenty (20) men cannot properly handle steamer, hose carriage and truck to good advantage during a fire of much magnitude.

THE BUILDINGS.

No material change have been made in the buildings except at Hose No. 2. There the floor timbers of the apparatus room have been strengthened, two stalls put in, instead of one, and those moved nearer the front of the building, a room fitted up for an additional man and the whole fitted with steam heat. The gravel roof at Central station, alterations at Lake Avenue station for a three-horse hitch on truck No. 3, and a box stall at Engine and Ladder No. 5 have been alluded to several times, and should receive the attention of the incoming City Councils.

THE APPARATUS.

In service, consists of 2 first size, 3 second size, and 1 third size Amoskeag steam fire engines, 3 hose carriages with reels, 6 hose wagons, (one a combination chemical and another carrying ladders). Four hook and ladder trucks, (one of which is an eighty-five foot aerial truck carrying other ladders), 2 hose carriages in outlying districts, with volunteer companies attached, 2 hose-jumpers (with hose), but without men attached, 1 supply wagon, 1 exercise wagon, and 1 spare one-horse hose carriage, located as follows:

2 first size steam fire engines, with three-horse hitch, at Central station, each with one-horse hose wagon.

1 second size steam fire engine, three-horse hitch, with 1 two-horse combination chemical and hose wagon.

1 second size steam fire engine and 1 two-horse hose wagon, at corner Lake avenue and Massabesic street.

1 two-horse ladder truck at same station.

1 third size steam fire engine and one-horse hose carriage, at corner of Webster and Chestnut street.

1 two-horse ladder truck at same station.

1 second size steam fire engine, and one-horse hose carriage on Rimmon street, corner of Amory street.

1 two-horse ladder truck at same station.

1 two-horse hose wagon, corner Maple and East High streets.

1 two-horse combination hose wagon, South Elm street, (Bakersville).

1 aerial hook and ladder truck, at Central station (three-horse hitch).

1 double tank (60 gallons each) chemical engine at Central station.

1 supply wagon at Central fire station.

1 steam fire engine reserve, at station of Engine No. 2 of but little use for fire purposes.

1 one-horse hose carriage at Central fire station.

1 two-horse combination chemical and hose wagon (new) awaiting building of station on Wilson hill.

1 four-wheeled hand hose carriage (with shafts) at junction of Old Falls road and Front street, Amoskeag.

1 two-wheeled hose carriage, Devonshire Mills, Goffe's Falls.

1 two-wheeled hose carriage in basement of stable of W. P. Farmer at junction of Candia road and Hanover streets.

1 two-wheeled hose carriage, junction Mammoth road and Massabesic street (Hallsville).

7 exercise wagons, 1 at Central Fire station, 1 at Engine No. 2, 1 at Engine and Ladder No. 3, 1 at Engine and Ladder No. 5, 1 at Engine and Ladder No. 6, 1 at Hose No. 2, 1 at Hose No. 3, 1 repair wagon for fire alarm telegraph.

In the early part of October, a new combination chemical and hose wagon built by C. H. Perkins & Co. of Lawrence, Mass., was put into service as "tender" to Engine No. 2, in place of the two-horse wagon,—the latter replacing the one-horse hose carriage at Hose No. 2, thus offering better fire protection in that section of the city.

Another Combination Chemical and Hose Wagon was received from the same firm, the later part of November, to be placed on Wilson Hill, when the Station at corner of Weston and Concord streets is ready for its occupancy.

The accommodations for the Chief Engineer's horse (during the day) at the Central Station are inconvenient, and can be remedied at slight expense.

THE FIRE ALARM TELEGRAPH.

We had two serious burn-outs during the year, from Electric Light-Wires, July 28th and August 11th, that of July 28th "blowing" every fuse in the Central Office, except on one circuit, and damaging the Repeater considerably. As long as the Electric Light wires are allowed to be strung overhead, just so long should the Electric Light Company be required to pay all damages caused by their wires.

A new Fire Alarm Box No. 512, corner of Beauport and Adams streets, (west side) has been added; about four miles of No. 9 galvanized iron wire has been put up and three miles of hard-drawn copper wire removed.

THE HORSES.

There are at present forty-three horses owned by this department, forty-one of which are permanently employed and two spare.

The pair of grays on Hose No. 3 at Bakersville ought to be replaced by another pair. These horses are probably upwards of twenty years old, have seen considerable service, and are wholly unfit for the duties required of them. Those at Hose No. 2, Maple street, are hardly heavy enough for that wagon and those on Engine No. 6, are not the best of fire-horses.

CASUALTIES.

April 3rd John Martin of Engine and Ladder No. 3 was thrown from a ladder, receiving a severe "shaking up," Daniel B. Emery of Engine No. 2,

slight injury to head by falling hose; Harrison H. Cole of Ladder No. 1, and George Taylor of Engine and Ladder No. 3, received sprained ankles; July 3rd Charles H. Gile of Engine and Ladder No. 5, injured finger, Thomas J. Wyatt of Engine No. 1, wrist badly cut with glass, Assistant-Engineer Clarence R. Merrill, severely sprained leg and crushed foot.

On the 25th of May, Mrs. Sophia Rogella was slightly burned about the neck and head, and on the 16th of December a daughter of Thomas Bellmar, about six years old and a son about ten were severely burned by the explosion of Kerosene, that the daughter died within a few hours, while the son is still under treatment at the Notre-Dame Hospital.

THE FIREMEN'S RELIEF ASSOCIATION.

The financial condition of the Association is as follows:

Balance on hand at annual meeting, February 11th, 1902 . .	\$5,342.70
Membership fees	8.00
Dividend on deposits in Savings Bank	160.60
Donations:	
Clarence R. Merrill	\$25.00
Hon. Perry H. Dow	15.00
Mrs. C. S. Kidder	10.00
Jeremiah Hodge	10.00
James W. Hill Co	10.00
James Lightbody	5.00
Frank C. Livingston	5.00
	<hr/>
	80.00
	<hr/>
	\$5,591.30

Expenditures.

Paid Joseph E. Merrill, salary	\$25.00
Postal cards and printing	2.10
Daniel B. Emery, benefit	5.00
Harrison H. Cole, benefit	18.00
John Martin, benefit	52.00
George Taylor, benefit	10.00
Charles H. Gile, benefit	6.00
Clarence R. Merrill, benefit	44.00
Thomas J. Wyatt benefit,	30.50
Henry Johnson, benefit	11.00
	<hr/>
	\$203.60
	<hr/>
Leaving a balance in treasury of	\$5,387.70

I desire again to call the attention of the City Councils to the *excessive rent* charged by the Water Commissioners for hydrant service, and also to remonstrate against the rent of hydrants being charged up to the Fire Department expenses. It would seem as much justice to charge the street expenses to it because the apparatus used the streets to reach a fire.

Whenever the new Combination Company is installed in the new station on Wilson Hill it will necessitate the purchase of two thousand feet of hose.

I desire to express my personal thanks to His Honor Mayor Clarke and the Committee on Fire Department for the many courtesies received at their hands and for their official aid and encouragement, to the Police Department for the efficient manner of handling the crowds at fires, to the assistant engineers and officers and men of the department, for their promptness and willing assistance at all times rendered.

Respectfully submitted,

THOMAS W. LANE,

Chief of Department.

Number and Location of Fire Alarm Boxes and Keys.

A KEY IS ATTACHED TO EACH BOX, and can be had by breaking the glass.

No. 3. American Locomotive Company's lower shop. Keys at offices of gas-works, county jail, Manchester Coal & Ice Company's sheds, and Charles H. Hutchinson's shop.

No. 4. Corner Spruce and Elm streets. Keys at Hotel Oxford, L. B. Bodwell & Co.'s, Palmer & Garmon's, street railway stables, and office of Blodgett & Young's block.

No. 5. Corner of Merrimack and Elm streets. Keys at Tebbetts & Co.'s and Hanscom's drug stores, Manchester House, and J. W. Hill Company's store.

No. 6. City Hall. Keys at Holland's and Thurston's drugstores. J. A. Riddle's office, and residence of J. L. Brock, 21 Amoskeag Corporation.

No. 7. Police station, corner of Manchester and Chestnut streets. Keys at chief of police's office and with all police officers.

No. 8. Corner of Elm and Hollis streets. Keys at Dante Smith's and Gadbois's drugstores, and Partridge Brothers' grain store.

No. 9. Corner of Elm and Webster streets. Keys at residence of Mrs. H. D. Corliss, J. Freeman Clough, Dr. E. Fritz, and station of Engine No. 5.

No. 12. Corner of North and Pine streets. Keys at residence of Mrs. John Moorar, George Emerson, Walter A. Green and O. D. Knox.

No. 13. Corner of Brook and Chestnut streets. Keys at residence of Welcome Jencks and Mrs. Lewis Simons, No. 1, Senter's block, and Hartshorn's grocery store.

No. 14. Corner of Prospect and Union streets. Keys at residences of Mrs. W. Ireland, Mrs. George W. Riddle, D. J. Adams, A. H. Olzendam, and Mrs. Thomas Morgan.

No. 15. Corner of Pearl and Chestnut streets. Keys at residences of Henry W. Shannon and J. Fred Chalker.

No. 16. Corner of Lowell and Union streets. Keys at residences of Rt. Rev. Bishop Bradley and R. R. Hassam.

No. 17. Corner of Amherst and Beech streets. Keys at residences of Miss Mary A. Watts and Michael Connor.

No. 18. Corner of Manchester and Maple streets. Keys at residences of the late H. E. Stevens, A. N. Baker, and William Perkins's estate.

No. 21. Corner of Merrimack and Pine streets. Keys at A. D. Smith's drugstore, J. McKeon's grocery store, A. L. Walker's office, and residence of James F. Gillis.

No. 23. Corner of Central and Beech streets. Keys at the residences of the late Eben T. James, and Mrs. Josiah Stevens.

No. 24. Engine and Ladder Company No. 3 house, corner of Massabesic street and Lake avenue. Keys at residence of D. M. Goodwin and station of Engine and Ladder No. 3.

No. 25. Corner of Hanover and Ashland streets. Keys at residences of George F. Lincoln, A. D. Gooden, the late Horace Gordon, and James R. Straw.

No. 26. Corner of Bridge and Russell streets. Keys at McCrillis's carriage shop.

No. 27. Corner of Belmont and Amherst streets. Keys at residences of H. M. Tarbell, E. S. Fletcher, estates of George H. Hubbard, and William Carr.

No. 28. Corner of Merrimack and Beacon streets. Keys at residences of A. L. Garmon and H. B. Fairbanks.

No. 31. Corner of Canal and Hollis streets, American Locomotive Company's shop. Keys at office, Amory Mills, Langdon Mills watchrooms.

No. 32. Langdon Mills block, corner of Canal and Brook streets. Keys at the Amoskeag Paper Company's mill, Langdon watchroom, and Electric Light Station.

No. 34. Jefferson Mill. Keys at watchroom and pumping station.

No. 35. Stark Mills. Keys at watchroom.

No. 36. Amory Mills. Keys at watchroom.

No. 39. Hillsborough county jail. Keys at office.

No. 41. Amoskeag Mills. Keys at watchroom.

No. 42. Manchester Mills. Keys at watchroom.

No. 43. Olzendam's Mill. Keys at watchroom.

No. 45. The S. C. Forsaith Company's shops. Keys at freight depot and office in building.

No. 51. Corner of Walker and Second streets. Keys at stores of F. Riedel and Henry Weber.

No. 52. Barr's brick block, West Manchester. Keys at Fradd & Co.'s and Wiggin-Young Co.'s stores, Merrimack House, and Engine No. 2 house.

No. 53. The Wallace steam mill. Keys at mill office, I. R. Dewey's tenement block, and Ranno's harness store.

No. 54. Corner of A and South Main streets. Keys at residences of Lord sisters, Neil Fullerton, and George W. Davis's store.

No. 56. Baldwin's bobbin shop. Keys at Baldwin's office and residences of J. C. Smith, E. P. Littlefield, and with watchman at works.

No. 57. Corner Mast road and D street. Keys at residences of Allen E. Eaton and C. H. George, and F. W. Towle's store.

No. 61. Corner of River road and Hancock street, Bakersville. Keys at True W. Jones Company's brewery, store of John A. Kane, and Hose 3.

No. 62. Gerrish Wool & Leather Company's. River road. Keys at tannery, the Edwin Kennedy house, and Hose 3.

No. 71. Corner of Cedar and Pine streets. Keys at residences of T. Collins, Daniel Sheehan, Thomas J. Smith, Simon McCarthy, and J. J. Twomey.

No. 72. Corner of Lake avenue and Lincoln street. Keys at residences of the late Austin Jenkins, and James Briggs.

- No. 73. Corner of Beech and Cedar streets. Keys at residence of Rev. J. A. Chevalier and Timothy Carr.
- No. 81. Central Fire Station, Vine street. Keys at all the engine rooms.
- No. 82. Old City Hotel, corner Lowell and Church streets. Keys at Lowell-street stable and Eames Bros.' drugstore.
- No. 91. Corner Webster and Beech streets. Keys at Children's Home and residences of George E. McClintock, Solomon Johnson, M. E. Sanctuary.
- No. 92. Corner Union and Clarke streets. Keys at residences of Mrs. Julia B. Bradford and E. H. Nutting.
- No. 112. Corner of Sagamore and Union streets. Keys at residences of W. A. Clarkson, M. D. Johnson, and Charles F. Chase.
- No. 113. Corner of Oak and Prospect streets. Keys at residences of Mrs. William B. Abbott, W. N. Johnson and E. M. Topliff.
- No. 114. Corner of Pearl and Ash streets. Keys at residences of G. A. Olzendam, W. S. Shannon, and John J. Bennett.
- No. 115. Corner of Blodget and Ash streets. Keys at residences of James A. Rogers and Cyren Bixby.
- No. 212. Shoe shop, Hallsville. Keys at the office of the shoe factory and residences of Charles C. Chase, G. W. Dearborn, Mrs. Milton A. Abbott, M. V. B. Garland, and Walter Cody's block.
- No. 213. Sash and blind factory, South Beech street, junction of Portsmouth Railroad. Keys at offices of Sash & Blind Company.
- No. 214. Elliott silk mill, corner of Wilson and Valley streets. Keys at office and watchroom of mill.
- No. 215. Hoyt & Co.'s shoeshop, corner of Lincoln and Silver streets. Keys at offices of shoeshop and Kimball Carriage Company and workshop opposite.
- No. 216. Jewett and Somerville streets. Keys at residences of G. H. Hill, 140 Jewett street, and W. B. Brown, 128 Jewett street.
- No. 217. Corner Candia road and Massabesic street. Keys at residences of L. M. Streeter, William Gadbois and Charles P. Still.
- No. 241. Lake avenue hill. Key at residence of Charles Davis.
- No. 261. Pearl-street grammar school. Keys at schoolroom and residences of C. E. Rose, S. W. Bascom, and Charles W. Cheney.
- No. 312. Corner of Putnam, Main and McGregor streets. Keys at residences of James Spence (309 Main street), Thomas Bolton, and gate No. 11 mill.
- No. 313. Corner Amory and Main streets. Keys at residences of Allen Dean and Lawrence M. Connor, Potvin's drugstore, Miville & Co.'s drugstore, gate of No. 11 mill, and station of Engine and Ladder No. 6.
- No. 314. P. C. Cheney Company's paper mill. Keys at office and Riverside Hose house.
- No. 315. Old Brick store, 'Skeag. Keys at Riverside Hose house and D. Jameson's residence.

No. 321. Corner Beauport and Wayne streets. Keys at Holy Angels Convent, the Brothers' School, and residences of E. H. Doherty, and Rev. Father Hevey.

No. 323. Corner of Putnam and Bartlett streets, Keys at Albert Oliver's store, P. J. Archambeault's bakery, and residence of Officer Lewis Clement.

No. 324. Amory and Laval streets, Key at residence of Desire Martin, No. 494 Amory street.

No. 511. Corner of Douglas and Green streets. Keys at residences of Amelia Davis, William A. Tufts, and James Kearns.

No. 512. Corner Beauport and Adams streets, West Side.

No. 513. Corner of Milford and Carroll streets. Keys at residences of J. W. Abell, James Ward, and Mrs. Elizabeth Ward.

No. 711. Corner Union and Grove streets.

Also, keys will be found in the hands of all regular police

The true time will be given at precisely 12.30 p. m. from Charles A. Trefethen's jewelry store, and will be denoted by one stroke of the fire bells.

Telephone Calls.

Chemical Engine, Central station	64—3
Engine No. 2	64—2
Engine and Ladder No. 3	64—5
Engine and Ladder No. 5	64—6
Engine and Ladder No. 6	64—7
Hose No. 2	116—4
Hose No. 3	102—4
Chief Engineer Lane's Office	64—3
Chief Engineer Lane's house	64—4
Assistant Engineer Merrill's office	212—3
Assistant Engineer Bean's house	533—2
Assistant Engineer Seaward's house	239—5

Two long rings twice calls all stations on line.

Instructions to keyholders and Citizens.

1. Upon the discovery of a fire, notice should be immediately communicated to the nearest alarm box, the key of which is in a circular box attached to the right side of the fire-alarm box. Keys are also in the hands of all regular police, and generally of persons at the corner or nearest house.

2. Keyholders and others, upon the discovery of a fire, or positive information of a fire, will unlock the box, pull down the hook once as far as it will go (without jerking); and then let go. Shut the door, but do

not try to remove the key, as it is locked in by a trap lock, and can only be removed with a release key, which is carried by each of the engineers, and they will, as soon as convenient, release and return it.

3. All persons giving fire alarms are requested to remain by the box a moment, and if no clicking is heard in the box, pull again; if you still hear no clicking, go to the next nearest box and give an alarm from that.

4. Never signal for fire seen at a distance. Never touch the box except to give an alarm of fire. Give an alarm for no other cause than actual fire. **DON'T GIVE AN ALARM FOR A CHIMNEY FIRE.**

5. Never let the keys go out of your possession unless called for by the chief engineer. *If you change your residence or place of business, where the keys are kept, return the keys to the same office.*

6. Owners and occupants of buildings are requested to inform themselves of the location of alarm boxes near their property; also all places where the keys are kept. Be sure the alarm is promptly and properly given.

7. Alarms will be sounded upon all the fire-bells in the city, and the number of the box will be given thus: Box 6, six blows, 2 1-2 seconds apart, repeated three times. Box 212, two blows, pause of 6 1-4 seconds, one blow, same pause, and two blows, 2—1—2, repeated three times.

8. The engineers reserve the right to give one stroke of the bells at any time; and in case of testing the boxes, each test will be preceded by one stroke of the bells.

TABLE
SHOWING THE APPARATUS CALLED TO DIFFERENT BOXES ON
FIRST, SECOND AND THIRD ALARMS.

Boxes.	FIRST ALARM.			SECOND ALARM.			THIRD ALARM.		
	Engine.	Hose.	Hook and Ladder.	Engine.	Hose.	Hook and Ladder.	Engine.	Hose.	Hook and Ladder.
3.....	1st R. 3	C. 1	1-3	1-3	2d R. 2		5-6	2	5-6
4.....	1st R. 2-3	"	1-3	1-3	2d R.	2 5	5-6		6
5.....	1st R. 2-3	"	1	1-3	2d R.	2-3 5	5-6		6
6.....	1st & 2d R.	"	1-2	1-3	2-3	3 5	5-6		6
7.....	1st R. 3	"	1	1-3	2d R.	2 5	2-5-6	3	6
8.....	1st & 2d R. 5	"	1-2	1-5	3	3	2-6	3	6
9.....	1st R. 5	"	1	5	2d R.	2 1	2-3-6	3	3-6
12.....	5	"	1	5	1st R.	2 1	2d R. 2-3-6	3	3-6
13.....	1st R. 5	"	1-2	5	2d R.	1	2-3-6	3	3-6
14.....	1st R. 5	"	1-2	5	2d R. 3	1	2-6	3	3-6
15.....	1st & 2d R. 5	"	1-2	1-5	3	3	2-6	3	6
16.....	1st R. 5	"	1-2	1-5	2d R. 3	3	2-6	3	6
17.....	1st R. 3	"	1-2	3	2d R. 5	1	2-6	3	3-6
18.....	1st R. 3	"	1-2	3	2d R.	1	2-5-6	3	5-6
21.....	1st R. 3	"	1	1-3	2d R. 2	2 5	5-6	3	6
23.....	1st R. 3	"	1-2	3	2d R.	1	2-5-6	3	5-6
24.....	1st R. 3	"	1-2	3	2d R.	1	2-5-6	3	5-6
25.....	1st R. 3	"	1-2	3	2d R.	1	2-5-6	3	5-6
26.....	1st R. 3	"	1-2	5	2d R. 5	3	2-6	3	1-6
27.....	1st R. 3	"	2	3	2d R.	1 1	2-5-6	3	5-6
28.....	3	"	2	3	1st R.	1	2d R. 2-5-6	3	1-5-6
31.....	1st R. 6	"	1	1-5	2d R. 5	2 6	2-3	3	3
32.....	1st R. 5	"	1	1-5	2d R. 6	2 6	2-3	3	3
34.....	1st & 2d R. 5-6	"	1-2	1-5	2-3	3-6		3	
35.....	1st & 2d R. 5-6	"	1	1-5	2-3	2 3-6		3	
36.....	1st & 2d R. 5-6	"	1	1-5	2-3	2 3-6		3	
39.....	1st R. 3	"	1-3	1-3	2d R. 2	2 5	5-6		6
41.....	1st & 2d R. 2-3	"	1	1-3	5-6	2-3 5-6			
42.....	1st & 2d R. 2-3	"	1	1-3	5-6	2-3 5-6			
43.....	1st R. 2-3	"	1	3	2d R. 6	2-3 1	5		5-6
45.....	1st & R. 2d 2-3	"	1	1-3	5	2-3 5	6		6
51.....	2-6			6	1st R. 3C1	1 3	2d R. 5	2-3	1-5
52.....	2-6		1	6	1st R. 3	3 3	2d R. 5	2	1-5
53.....	2-6		1	6	1st R. 3		2d R. 5	2-3	1-5
54.....	2-6			6	1st R. "	1	2d R. 3-5	2-3	1-3-5
56.....	2-5		1	6	1st R. 3	3 3	2d R. 5	2	1-5
57.....	2-3		1	6	6	3 3	1st & 2d R. 3-5	2-3	1-3-5
61.....	1st R. 3	C. 1	1-3	3	2d R. 2		5-6	2	1-5-6
62.....	1st R. 3	"	1-3	3	2d R. 2		5-6	2	1-5-6
71.....	1st R. 3	"	1	3	2d R.	2-3 1	2-5-6		5-6
72.....	1st R. 3	"	1	3	2d R.	2 1	2-5-6	3	5-6
73.....	1st R. 3	"	1	3	2d R.	2 1	2-5-6	3	5-6
81.....	1st & 2d R.	"	1	1	5	2 3-5	2-6	3	6
82.....	1st & 2d R. 5	"	1-2	1-5	3-6	3-6	2		
91.....	1st R. 5	"	1	5	2d R.	2 1	2-3-6	3	3-6
92.....	1st R. 5	"	1	5	2d R.	2 1	2-3-6	3	3-6
112.....	1st R. 5	"	2	5	2d R.	1 1	2-3-6	3	3-6
113.....	1st R. 5	"	2	5	2d R.	1 3	2-3-6	3	3-6
114.....	1st R. 5	"	1-2	5	2d R. 3	3	2-6	3	1-6
115.....	1st R. 5	"	2	5	2d R.	1 1	2-3-6	3	3-6
212.....	1st R. 3	"	2	3	2d R.	1-3 1	2-5-6		5-6
213.....	1st R. 3	"	2-3	3	2d R.	1 1	2-5-6	1	5-6
214.....	1st R. 3	"	2-3	3	2d R.	1	2-5-6	1	5-6
215.....	1st R. 3	"	2-3	3	2d R.	1 1	2-5-6		6-5
216.....	1st R. 3	"	2	3	2d R.	1 1	2-5-6	3	6-5
217.....	1st R. 3	"	2	3	2d R.	1 1	2-5-6	3	5-6
241.....	3	"	2	3	1st R.	1 1	2d R. 2-5-6	3	5-6
261.....	1st R. 3	"	1-2	3	2d R. 5	5	2-6	3	3-6
312.....	1st R. 2-6		1	6	2d R. 5C1	2 1	3	3	3-5
313.....	1st R. 2-6		1	6	2d R. 5	2 1	3	3	3-5
314.....	5-6	C. 1	1	5	1st R. 2	6	2d R. 3	2-3	1-3
315.....	5-6	"		5	1st R.	1 6	2d R. 2-3	2-3	1-3
321.....	2-4		1	6	1st R. 5C1	1	2d R. 3	2-3	1-3-5
323.....	2-6		1	6	1st R. 5	5	2d R. 3	2-3	3-5
324.....	2-6		1	6	1st R. 5	5	2d R. 3	2-3	1-3
511.....	2-6			6	1st R.	1 3	2d R. 3-5	2-3	1-5
512.....	2-6		1	6	1st R.	1	2d R. 3-5	2-3	3-5
513.....	2-6			6	1st R.	1	2d R. 3-5	2-3	1-3-5
711.....	1st R. 3	C. 1	3	3	2d R.	2 1	2-5-6	1	5-6

Rules and Regulations in regard to responding to Fire Alarms, etc.

The following rules have been adopted by the board of engineers and the fire department will strictly comply until otherwise ordered, and will attend alarms of fire as per "OFFICIAL RUNNING CARD."

RUNNING RULES.

Whenever an alarm is sounded, the members of all companies not called to that box will report to their respective company quarters, and *there remain until dismissed* by the signal of the bells or by an engineer in charge.

In case companies on their first run have responded to an alarm, companies on their second run to the box from which the alarm has been sounded will answer all first-run boxes of the absent companies: and in case engines are out that would respond to another box, then third alarm companies will respond. In case of alarm from a box that does not call for a third alarm, companies on their second run will then answer to all other boxes.

Whenever two trucks answer to first alarm the other truck will answer to all other boxes.

At any time when an alarm of fire is given, the engine, hose carriage, or truck that leaves the house first will have the right to lead to the fire. Whenever a horse lags or gives out, drivers should then give others the right of way, so as not to delay the rest of the apparatus. **NO RUNNING BY WILL BE ALLOWED, EXCEPT IN CASE OF ACCIDENT. UNDER PENALTY OF DISMISSAL OF THE DRIVER FROM THE DEPARTMENT.**

The drivers shall not permit persons not connected with the department to ride upon the apparatus, and in muddy weather or heavy wheeling they shall not permit any one to ride upon thier apparatus when returning from fires.

Drivers will take the following routes in responding to alarms on the West Side: For crossing Amoskeag bridge, take Elm street to Salmon, down Salmon street and across the bridge. For crossing McGregor bridge take Elm street to Bridge street, down Bridge street and across the bridge. For crossing Granite bridge take Elm street to Granite, down Granite and across the bridge.

Use gongs freely to clear streets and when nearing crossings

Engineers of steamers will not run over eighty (80) pounds of water pressure, except when orders are received from a member of the board of engineers or the officer, in command of the company.

Captains or officers commanding companies will see that the rules and regulations of this Department are adhered to; to report any inattention to duty or failure to comply with the rules, or any disobedience of orders and upon return from alarms will report to headquarters immediately, personally or by telephone, after apparatus is "made up" and ready for duty.

THIRD ALARM.

ON THIRD ALARM all apparatus will respond.

GENERAL ALARM.

In the event of a fire of such magnitude that second and third alarms are needed, a general alarm will be given by striking TEN BLOWS, in which case all companies will respond.

SPECIAL CALLS ON FIRE ALARM.

When more apparatus is wanted, without giving second and third alarm the following special calls will be given:

2—1 for Engine 1.	1—1—1 for Aerial Truck.
2—2 for Engine 2.	3—3 for Truck 3.
2—3 for Engine 3.	3—5 for Truck 5.
2—4 for Engine 4.	3—6 for Truck 6.
2—5 for Engine 5.	4—1 for Hose 1.
2—6 for Engine 6.	4—2 for Hose 2.
	4—3 for Hose 3.

Companies answering "special calls" will wait thirty seconds before leaving quarters, to prevent mistakes.

OUT OF TOWN CALL.

For a fire out of the city or brush fire 2—2—2, all companies will assemble at their respective quarters and await orders.

ALL OUT SIGNAL.

Two blows on the bells, which dismisses all members at company quarters.

The signal will be given after companies working at a fire have returned to quarters, "made up," and are ready to respond to another alarm.

TEST SIGNAL.

One blow at 12.30 noon.

SCHOOL SIGNALS.

1—1, with fifteen seconds between blows, closes primary and middle schools.

2—2, with fifteen seconds between the 2's closes all the schools. Time for giving same, 7.30 A. M., 11.20 A. M., or 1.15 P. M.

MILITARY CALL.

12 blows twice.

Rules for Exercising Horses.

It shall be the duty of the drivers of engines, hose carriages, hose wagons, hook-and-ladder trucks, and all other apparatus connected with this department, to exercise the horses every day, weather permitting, except Sunday, with the exception of engines having "first" and "second runs," and in such cases must exercise on days of "second run," the same to be done within the following limits:

CENTRAL STATION.

North to Pearl street.	East to Union street.
South to Merrimack street.	West to Chestnut street.

NORTH MAIN-STREET STATION.

North to Adams street.	East to Main street.
South to Granite street.	West to Dubuque street.

LAKE AVENUE STATION.

North to Manchester street.	East to Belmont street.
South to Summer street.	West to Maple street.

MAPLE-STREET STATION.

North to Myrtle street.	East to Linden street.
South to Hanover street.	West to Union street.

WEBSTER-STREET STATION.

North to Clarke street.	East to Union street.
South to Pennacook street.	West to Elm street.

RIMMON-STREET STATION (MCGREGORVILLE).

North to Kelly street.	East to Beanport street.
South to Wayne street.	West to Rimmon street.

BAKERSVILLE STATION.

North to bridge, over Boston & Maine Railroad.	South to Baker street.
East to Calef road.	West to Brown avenue.

Drivers must confine themselves to the above, and in no case take their horses beyond the prescribed limits, except for shoeing and in case of fire, without permission from the chief or assistant engineer.

In exercising, care must be taken to avoid colliding with other teams. In approaching corners, crossings, street car tracks, and in going down grades the speed of the horses must be checked.

In case of an alarm use gong freely while returning to quarters.

Any driver violating these rules will be liable to suspension or discharge.

Stations and Sleeping Rooms.

All stations of this department will be open from 7 A. M., until 9 P. M., and the members at the several stations will receive visitors and citizens courteously, answer all questions in a gentlemanly manner, and give any proper attention.

No political or religious discussions will be allowed in any of the houses of this department or by the officers or men when on duty.

No permanent member of the department shall attend a caucus or political convention as delegate, distribute tickets at any election, or take any part whatever in political matters other than to exercise his right of suffrage.

Gambling of any kind shall not be permitted in or about any of the houses or premises occupied by the department.

Stations to be closed at 10 o'clock P. M.

All games must cease at 10 P. M., and the stations be closed at that hour, to permit the permanent men, and those detailed to sleep in the station, to retire undisturbed.

None of the stations will be open after the above hour (except in case of an alarm of fire) without permission of the chief or a member of the board of engineers, although stations may be kept open on Saturday evening until 11 o'clock.

No spirituous or malt liquors shall be allowed in or about any of the fire stations, and any member of the fire department seen intoxicated at any fire or alarm of fire, or who shall be known to frequent places where liquors are sold, during the progress of a fire, or whenever in uniform, shall be subject to reprimand, or dismissal, as the board of engineers may determine.

Any permanent member visiting any liquor saloon in uniform, except in the performance of his duty as a member of the fire department, or who is intoxicated or visits places where intoxicating liquors are sold, while on duty, shall be suspended or discharged, as the board of engineers may determine.

Any violation of these rules will subject the offender to reprimand or dismissal, and commanding officers of companies having knowledge of the violation of the foregoing rules will suspend the offender, and report the same to the chief or board of engineers.

The permanent men shall exercise a careful supervision over the sleeping apartments, see that the rooms are put in order and the beds made as early as 11 o'clock A. M., and that the bedding is changed at suitable intervals. The occupants of each bed will be held responsible for the cleanliness of the same, and held strictly accountable for any damage to either bed or bed clothing through carelessness. After 10 P. M. occupants shall refrain from loud talking or in any manner disturbing the rest of any who have retired.

Any member of the department not complying with the above rules shall be liable to suspension or expulsion from the department.

Absent from City or Station.

No permanent member shall leave his station to visit any section of the city without permission of the chief or an assistant engineer, or leave the city, or be granted leave of absence, without notifying the chief engineer and procuring a substitute to his acceptance, and the substitute shall be on duty before the applicant leaves his post, except on his regular "days off."

Any call member expecting to be absent from the city shall notify the captain of his company, and before leaving the city shall procure a substitute satisfactory to said captain.

Substitutes running for and answering the names of any call man shall be entitled to the same pay, *pro rata*, as the call man for whom they answer for the time they substitute, and the clerks of the several companies shall keep said substitutes' time and notify the regular call man of the amount due from him and pay said amount to the substitute performing said service.

Any member of the department not complying to the above rules shall be liable to suspension or expulsion from the department.

DAYS OFF

Day of month.	NAME.	COMPANY.	Day of month.	NAME.	COMPANY.
1	Hall.....	Engine 1.	18	Rowe.....	Hose 2.
2	Harvey.....	" 1.	19	Worthen.....	" 2.
3	Barker.....	" 1.	19	Morse.....	Engine & Ladder 5.
4	Parsons*.....	Hose 1.	20	Smith.....	" " 5.
5	Gould.....	Engine 4.	21	Cann.....	" " 5.
6	Cann.....	" 4.	22	Hubbell.....	" " 5.
7	Rogers.....	" 4.	23	Morrill.....	Engine 2.
8	Dyer.....	Truck 1.	24	Denyou.....	" 2.
9	Gage.....	" 1.	25	Whitcomb.....	" 2.
10	Pherson.....	" 1.	26	Lane.....	" 2.
11	Porter.....	Chemical 1.	26	Edgar.....	Engine & Ladder 6.
12	Richardson.....	" 1.	27	Foster.....	" " 6.
13	Walker.....	Engine & Ladder 3.	28	Tebbets.....	" " 6.
14	Piper.....	" " 3.	29	Crosby*.....	" " 6.
15	Dunbar.....	" " 3.	30	Young*.....	Hose 3.
16	McLeod.....	" " 3.	31	Smith*.....	" 3.
17	Porter.....	" " 3.			

* In February, Crosby will take the 16th and Young the 26th; in July, Parsons will take the 14th; and in February, April, June, September, and November, Smith will take the 27th.

The hour of leaving will be 7 o'clock A. M., and members will not leave their station until the arrival of the spare driver. They must report *promptly at 7 o'clock* the following morning for duty.

Those whose breakfast hour is 6 o'clock will remain at station until 7 o'clock on the dates of their "days off."

Should a fire be in progress at the hour of changes, men will remain on duty until the "all out" is given, except permission is obtained of the chief, or engineer in charge of fire, to retire. Should a "general" or third alarm be rung in while members are in town, they will be expected to report for duty.

Entering Building with Line of Hose.

All steamer and hose companies are instructed not to enter any building with a line of hose unless the stop nozzle is closed, except in cases where they can see the fire, and when their streams will reach it without damage to other property, due care being exercised as to whether their services are needed.

Extra care should be exercised by hosemen of steamer companies in using "shut-off" nozzels, shutting off to be slowly and gradually.

List of Fires and Alarms Responded to During 1902 with Loss and Insurance.

STILL. Wednesday January 1, 9.30 A. M. Three-story wooden tenement block, No. 22 Wayne street, owned by David Labonte, and occupied by several families. Members of Engine and Ladder No. 6 responded, but could find no fire.

STILL. Wednesday, January 1, 11.15 A. M. Chimney fire in three-tenement block, No. 488 North Main street owned by Daniel Conner, and occupied by three Families. Members of Engine and Ladder, No. 6 responded. Used one charge of Pony.

Box. 15. Wednesday, January 1, 9.57 P. M. Chimney fire in four-story wooden tenement block, No. 12 Washington street, owned by Charles C. Hayes, and occupied by Elizabeth Foster, and others. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Used one charge of Pony and part of one Chemical Tank. No damage.

STILL. Thursday, January 2, 10.35 A. M. Chimney fire in dwelling-house, No. 47 Nashua street, owned by heirs of William H. Smith, and occupied by Peter Shannon. Members of Hose No. 2 responded. Used two charges of Pony. No damage.

Box. 215. Friday, January 3, 5.22 P. M. Chimney fire in three-story wooden building, corner Lincoln and Silver streets, owned and occupied

by the F. M. Hoyt Co. as an "annex" to their shoe factory. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose, 2, 3, Truck 3. No damage.

STILL. Saturday, January 4, 4.14 p. m. Three-and-half story wooden tenement block, No. 68 Concord street, owned by heirs of Samuel W. Parsons, and occupied by several families. Thawing out water pipes filled the house with smoke. No. damage.

STILL. Saturday, January 4, 4.42 p. m. Chimney-fire in two-and-half story tenement block, No. 352 Pine street, leased by Wm. M. Kendall, and occupied by several families. Used one charge of Pony. No damage.

STILL. Saturday January 4, 10.25 p. m. Chimney fire in two-and-half story wooden tenement block, No. 21 Concord street, owned by Stark mills, and occupied by several families. Chemical engine responded. Used one tank and three charges of Pony. No damage.

STILL. Thursday, January 9, 2.10. p. m. Three story brick block, No. 819 Elm street, owned by Roger G. Sullivan, and occupied by Henry J. Jennings. Cause, soot in Chimney. Used one charge of Pony. No damage.

Box 81. Tuesday, January 14, 8.45 p. m. } And telephone for third alarm.

Box 82. Tuesday, January 14, 9.05 p. m. }

The "Kennard," a six-story stone and brick building, 922-1020 Elm street, owned by Mead, Mason & Company, and occupied by banks, stores and offices. This fire was discovered in the north-west corner of the building on Water street, by its bursting through a window in the clothing store of Allen & Kimball. The second alarm followed the first in seven minutes, and balance of department called by telephone. Assistance was also telephoned for from Concord and Nashua, both cities sending delegations of men and apparatus. The re-call sounded Friday the 17, at 3.58 p. m., sixty-seven (67) hours from first alarm.

	The Kennard.	Smyth's Block.
Value of buildings	\$213,750	\$20,000
Damage	193,750	8,000
Insurance	127,000	8,000
Insurance paid	127,600	8,000

Plate glass windows on opposite side of street. Value \$1,500, damage \$1,500, insurance \$1,500, insurance paid \$1,500.

	The Kennard.	Smyth's Block.
Value of contents	\$178,547	\$5,000
Damage	151,197	4,310
Insurance	51,975	3,400
Insurance paid	51,600	1,810

Box 82. Wednesday, January 15, 9.08 a. m. Ash barrel in shed, rear of 61 Spring street, owned by the Amoskeag Manufacturing Co. No. damage. Box pulled by citizen. Companies responding: Engines 1, 2, 4, 5, Chemical, Hose 1, 2, 3, Trucks 1, 5.

STILL. Saturday, January 18, 12.08 A. M. Ruins of the Kennard started up. Hose Company 1 responded. Laid 300 feet of hose. On duty six hours.

STILL. Sunday, January 19, 7.30 A. M. Chimney fire in Smyth's Block, 1032 Elm street, owned by heirs of Smyth & Williams. Used three charges of Pony. No damage.

STILL. Sunday, January 19, 1.30 P. M. Ruins of The Kennard started up. Hose Company 1 responded. Laid 300 feet of hose. On duty one hour.

STILL. Tuesday, January 21, 8.05 P. M. Chimney fire in Blodgett block, corner of Elm and Cedar streets, owned by Blodgett heirs, and occupied by ten families. No damage.

Box 71. Friday, January 24, 11.25 A. M. Chimney fire in two-story dwelling, 143 Cedar street, owned and occupied by John Healey. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Truck 3. No damage.

Box 313. Saturday, January 25, 11.23 P. M. Two and a half story house with barn connected, 3 Monmouth street, corner North Main street, owned by W. E. Eagan and occupied by him and Misses Hannah and Catherine Shea, and the barn was occupied by Felix Breault. Fire started in the barn and gained considerable headway before the alarm was given, Breault first noticing it and notifying Officer Sweeney, who pulled the box. Companies responding: Engines 2, 4, 6, Chemical, Hose 1, Truck 6. Value of building \$3,000, damage \$1,000, insurance, \$2,600, insurance paid \$967.

	Eagan.	Shea.	Breault.
Value of contents	\$500	\$600	\$500
Damage	207	150	60
Insurance	300	None	300
Insurance paid	207	"	50

STILL. Sunday, January 26, 5.15 P. M. Chimney fire in two-story dwelling 610 Union street, owned and occupied by David H. Young. Chemical Engine responded. No damage.

STILL. Thursday, January 30, 12 M. Grass fire on North River Road owned and occupied by George Hall. Cause, sparks from locomotive on Boston & Maine Railroad. Members of Engine & Ladder Company 5 responded. Used one charge of Pony.

STILL. Wednesday, February 5, 9.34 A. M. Two-story cottage at 267 Lowell street, owned by William Moul of Martin's Ferry and occupied by John Akbled. Cause, defective chimney. Hose Companies No. 1 and 2 responded. Used one charge of Pony and 150 feet of hose from hydrant. Value of building, \$1,600, damage \$125, insurance \$1,000; insurance paid, \$100. No damage to contents.

Box 5. Saturday, February 8, 6.18 A. M. Four-story brick block, corner Elm and Merrimack streets, owned by Dr. J. F. Brown, and Straw heirs, and occupied by Geo. W. O. Tebbetts as drug stores. Cause, spontaneous

combustion. Damage slight. Box pulled by citizen. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, Trucks 1, 3.

STILL. Sunday, February 9, 6.02 P. M. Chimney fire in four-tenement wooden block, No. 202 Douglas street, owned by heirs of Edward Wyman, and occupied by several families. Members of Engine and Ladder companies No. 2 responded. Used one charge of Pony. No damage.

Box 17. Monday, February 10, 4.55 A. M. Cottage house No. 10 Nashua street, owned by William Corey and occupied by J. W. Robinson. Cause, breaking of a kerosene lamp. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 2, Truck 3. Value of building \$750; damage \$18.75, insurance \$500, insurance paid \$18.75. No damage to contents.

Box 8. Tuesday, February 11, 3.50 A. M. Three-story brick block, No. 14 Hollis street, owned by William F. Hubbard, and occupied by several families. The fire originated in the cellar under an unoccupied tenement, and was confined wholly to the basement. Cause unknown. Box pulled by Officer James F. Dunn. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building \$12,000; damage, \$900; insurance \$2,500; insurance paid, \$900. No damage to contents.

STILL. Tuesday, February 11, 5.55 P. M. Two-and-half story house 21 Jane street, owned by William H. Hurd and occupied by George H. Nutting. Cause, roaring fire in stove. Members of Hose Company No. 2 responded.

STILL. Tuesday, February 11, 5.15 P. M. Chimney fire in two-story wooden tenement block, No. 47 Church street owned by Tom W. Robinson, and occupied by several families. Used two charges of Pony. No damage.

STILL. Tuesday, February 11, 8.50 P. M. Dwelling house at corner of Linden and Orange streets, owned by Mrs. Cora L. Brookhouse and occupied by George P. Wallace. Chemical Engine responded. No services required.

STILL. Wednesday, February 12, 7.30 P. M. Chimney fire in wooden tenement block, 44 McGregor street, owned by Spence & Leggett, and occupied by nine families. Members of Engine and Ladder Company No. 6 responded. Used two charges of Pony. No damage.

Box 4. Thursday, February 13, 1.33 A. M. Three-story wooden block 55 Spruce street, owned by James Lightbody, and occupied by George Haskell and others. Fire originated in a storeroom on second floor occupied by Haskell. Cause, hot ashes in a wooden tub. Box pulled by John Broderick. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. Value of building \$3,600, damage \$50. No insurance. No damage to contents.

STILL. Thursday, February 13, 6.30 P. M. Chimney fire in three-story wooden block, 14 Cedar street, owned by Blodgett heirs, and occupied by Joseph Hart and others. Chemical Engine responded. Used one charge of Pony. No damage.

STILL. Sunday, February 16, 7.30 A. M. Chimney fire in cottage house at 169 Laurel street, owned by estate of Clark M. Bailey, and occupied

by Arthur Graham. Used one charge of Pony. No damage.

STILL. Wednesday, February 19, 4.40 P. M. Chimney fire in dwelling house, 162 Douglas street, owned by William McElroy, and occupied by Mrs. F. LaFrancois. Members of Engine and Ladder Company No. 2 responded. Used one charge of Pony. No damage.

STILL. Sunday, February 23, 6.35 P. M. Chimney fire in two-tenement house, 220 Pine street, owned by James Marden, and occupied by A. Healy and Simeon Wadeau. No damage.

STILL. Sunday, February 23, 9.25 P. M. Chimney fire in two-tenement block, 4 Monmouth street, owned by G. A Sackett, and occupied by two families. Members of Engine & Ladder Company No. 6 responded. Used two charges of Pony. No damage.

Box 45. Friday, February 28, 6.11 P. M. Boiler room of the Forsaith Machine Company's works. Shavings in the "well" caused from spark from boiler. No damage. Box pulled by citizen. Companies responding: Engines 1, 2, 3, 4, Chemical, Hose 1, Trucks 1, 3.

STILL. Wednesday, March 5, 9.30 A. M. Telephone call for a chimney fire in three-story wooden block at 197 Manchester street owned by Mrs. H. C. Joy, and occupied by several families. No services required.

Box 51. Wednesday, March 5, 4.27 P. M. Cottage house, 94 Fourth street, owned by Elizabeth Noon, and occupied by John Haley. Fire started in woodbox in rear of stove. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Truck 6. Value of building \$2,000, damage \$40, no insurance. No damage to contents.

STILL. Friday, March 7, 10.15 A. M. Chimney fire in brick block, 548 Elm street, owned by Blodgett heirs, and occupied by W. F. Glancy as bottling works. Chemical Engine responded.

STILL. Wednesday, March 12, 10.38 A. M. Chimney fire in two-story tenement building, 96 Bridge street, owned by Freeman Higgins, and occupied by G. Dupont. Ignited woodwork around the chimney, doing slight damage. Chemical Engine responded. Used one charge of Pony. Value of building \$5,000, damage \$10, insurance \$2,500, insurance paid \$6. No damage to contents.

STILL. Wednesday, March 12, 5.35 P. M. A short circuit on private alarm from Rimmon Shoe Shop, occupied by H. B. Reed & Co. Caused false alarm to which Engine & Ladder Company No. 6 responded with apparatus.

Box 7. Monday, March 17, 7.18 P. M. A kerosene lamp exploded in two-story tenement house, rear of 135 Manchester street, owned by Mrs. H. C. Joy, and occupied by Pierre Lefebvre. Box pulled by citizen. Companies responding: Engines, 1, 3, Chemical, Hose 1, Trucks 1, 3. No damage.

Box 82. Monday, March 17, 11.28 P. M. Four-story brick block, 14 Birch street, owned by E. S. Whitney, A. B. Merrill and M. Godfrey, and occupied by New England Telephone and Telegraph Co., as stockroom, and by several families. The fire originated in the basement and was wholly confined there. Box pulled by Officer John T. Nixon. Companies

responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building \$10,000, damage \$150, insurance \$7,500, insurance paid \$150. Value of contents \$1,500, damage \$33.88, no insurance.

STILL. Sunday, March 23, 1.30 P. M. Grass fire in Amoskeag Manufacturing Co.'s field on McGregor street opposite the residence of W. K. Robbins. Detail of men from Engine and Ladder Company No. 6 responded.

STILL. Sunday, March 23, 5 P. M. Grass fire on land owned by Amoskeag Manufacturing Co. south of Rock Rimmon, near city stone crusher. Caused by boys. Detail of men from Engine and Ladder Company No. 6 responded.

STILL. Tuesday, March 25, 9.15 A. M. Four-story wooden building, owned by Rimmon Shoe Co., and occupied by H. B. Reed & Co. Cause, explosion of a naphtha tank. Members of Engine and Ladder Company No. 6 responded. Extinguished by automatic sprinklers before the department arrived.

STILL. Tuesday, March 25, 5.15 P. M. A shed used as store-room on Stevens street, owned by—Bean. Cause, boys playing with matches. Hose Company No. 3 responded. Used 1 charge of Pony.

STILL. Wednesday, March 26, 4.15 P. M. Brush and grass fire on Hevey and Wayne streets, on land owned by Amoskeag Manufacturing Co. Cause unknown. Members of Engine and Ladder Company No. 6 responded with hose carriage. Laid 350 feet of hose from hydrant.

STILL. Tuesday, April 1, 2.30 P. M. Grass fire, South Elm street, west of chapel, on land owned by Amoskeag Manufacturing Co. Caused by boys. Hose Company No. 3 responded.

STILL. Tuesday, April 1, 3.25 P. M. Slight fire in partition of house of Thomas F. Lannagan, 24 Auburn street. Chemical Engine responded.

STILL. Wednesday, April 2, 11.45 A. M. Dwelling house, 534 Granite street, owned by Mrs. E. B. Hull of Bedford, and occupied by William Arnold. House was filled with smoke, caused by poor draft of chimney. Members of Engine Company No. 2 responded.

STILL. Sunday, April 6, 2.30 P. M. Brush fire on Beech street near Webster. Members of Engine and Ladder Company No. 5 responded with hose carriage.

Box 315. Wednesday, April 9, 8.44 A. M. Chimney fire in cottage house, 476 Front street, owned by the Maxwell Ice Co. Box pulled by citizen. Fire extinguished before arrival of the Department. Companies responding: Engines 5, 6, Chemical, Independent Hose No. 5, Truck 5.

Box 312. Friday, April 11, 5.25 A. M. Chimney fire in three-story block, rear of 21 Wayne street. Needless alarm. Box pulled by citizen. Companies responding: Engines 1, 2, 6, Chemical, Hose 1, Truck 6.

STILL. Tuesday, April 15, 7.13 P. M. Chimney fire in two and a half story wooden block, corner Pearl and Chestnut streets, owned by estate of A. G. Dole. Used 1 charge of Pony.

STILL. Tuesday, April 15, 7.30 P. M. Awning over store of Otis Barton & Co., 853 Elm street. Chemical Engine responded.

STILL. Wednesday, April 16, 6.02 P. M. Two-story wooden building 1205 Elm street, owned by E. L. Kimball and occupied by W. E. Williams as a laundry. Slight fire on roof, caused by sparks from chimney igniting shingles. Chemical Engine responded. No damage.

STILL. Thursday, April 17, 11.45 A. M. Grass fire on land of Amos. Keag Manufacturing Co., South Elm street, west of Bakersville chapel. Set by boys. Hose Company No. 3 responded. No damage.

2—2—2. Thursday, April 17, 1.52 P. M. Brush fire on wood land, south of Pine Grove Cemetery, nearly down to Goffe's Falls. Detail from different companies responded. Extinguished before arrival from Central Station.

STILL. Thursday, April 17, 2.58 P. M. Immediately after the return from foregoing fire, telephone message received of brush fire on land of Perry H. Dow, about three miles out, on Westside river road to Hooksett. Detail of men from Central Station responded. Returned at 6.40 P. M.

Box 82. Thursday, April 17, 8.32 P. M. Ash-shute attached to the three-story brick block, rear of 1054-1060 Elm street, owned by heirs of A. B. Story. Cause, hot ashes. Damage slight. Extinguished by Chemical Engine. Box pulled by Amos Gouin. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

2—2—2. Saturday, April 19, 11.33 A. M. Grass and brush fire on Mammoth Road, near Junction of the Weston Road. Detail from department responded. Extinguished without assistance of members of department.

Box 113. Monday, April 21, 2.56 P. M. Dwelling house 621 Maple street, owned and occupied by Edward Wagner. Cause, plumber's torch melting off solder around coving. Box pulled by citizen. Companies responding: Engines 4, 5 Chemical, Hose 2, Truck 5. Value of buildings \$9,000; damage \$60, insurance \$5,000, insurance paid \$60. No damage to contents.

Box 513. Monday, April 21, 11.17 P. M. A hen house at 72 Bismark street, owned by John Dexter. Cause, lamp in incubator. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Truck 6. Loss \$75, no insurance.

STILL. Wednesday, April 23, 7.45 A. M. Chimney fire in two tenement house 322 Cartier street, owned by Gregory Koehler. Members of Engine and Ladder Co. No. 6 responded. Used 2 charges of Pony. No damage.

Box 261. Wednesday, April 23, 9.09 P. M. False alarm pulled by some malicious person. Companies responding: Engines 3, 4, Chemical, Hose 1, 2, Truck 3.

STILL. Saturday, April 26, 6.20 A. M. Some wood shavings in rear of 405 Elm street, owned by Head & Dowst Co., and occupied by several firms. Cause, lime slacking. No damage.

STILL. Monday, April 28, 5.48 P. M. Brush fire on the Huse road, in woods owned by Isaac Huse. Delegation of 20 men from different companies responded. No damage.

STILL. Monday, April 28, 7.38 P. M. Chimney fire in two and half-

story brick block, 28 Arkwright street, owned by Amoskeag Manufacturing Co. No damage.

Box 215. Thursday, May 1, 3.17 P. M. Barn, connected with cottage house, 125 Belmont street, owned by J. K. Mitchell, and occupied by Louis B. Melvin. The fire originated in the barn chamber, and was confined wholly to that building. Cause, boys with matches. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 2, 3, Truck 3. Value of building, \$150, damage, \$90, no insurance. Value of contents \$50, damage \$50, insurance paid \$50.

STILL. Saturday, May 3, 3, 1.05 P. M. Chimney fire in dwelling house, 52 Rimmon street, owned and occupied by Jeremiah Connor. Members of Engine Company No. 2 responded with hose wagon. Used 1 charge of Pony. No damage.

STILL. Sunday, May 4, 11.37 A. M. Brush fire on Smyth road. Detail of men from Engine and Ladder Company No. 5 responded. Used 1 charge of Pony. No damage.

STILL. Thursday, May 8, 9.05 P. M. Brush fire near corner of Cilley Road and Jewett street. Members of Engine and Ladder Company No. 3 responded with hose carriage. No services required.

STILL. Saturday, May 10, 8.40 A. M. Cottage house, 462 Lake avenue, owned and occupied by Charles P. Chapman. Cause, soot in chimney. Members of Engine and Ladder Company No 3 responded. Used 1 charge of Pony.

Box 314. Monday, May 12, 9.39 A. M. Slight fire on roof of Amoskeag Bridge, caused by sparks from Locomotive of Boston & Maine railroad. Extinguished by Pony. Box pulled by citizen. Companies responding: Engines 5, 6, Chemical, Hose 1, Truck 5. Damage slight.

Box 45. Monday, May 12, 11.11 A. M. Four-story brick building, corner Auburn and Canal streets owned by Gordon Woodbury and occupied by several firms. Cause, sparks from chimney blowing back into well for shavings. Box pulled by citizen. Companies responding: Engines 1, 2, 3, 4, Chemical, Hose 1, Trucks 1, 3.

STILL. Monday, May 12, 5.25 P. M. Small fire on roof in rear of 60 Merrimack street. No damage. Chemical Engine responded.

Box. 3. Tuesday, May 13, 7.37 A. M. Slight fire on roof of coal shed of Manchester Locomotive Works, corner Elm and Valley streets. Cause, sparks from locomotive of Boston & Maine Railroad. Damage slight. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Trucks 1, 3.

Box 45. Tuesday, May 13, 5.10 P. M. Four-story brick building, corner of Auburn and Canal streets, owned by Gordon Woodbury, and occupied by sundry firms. The fire was in the water tank tower on top of building, and caught from sparks from the boiler-room chimney connected with the works. Box pulled by citizen. Companies responding: Engines 1, 2, 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building \$25,000, damage \$150, insurance \$20,000 (blanket policy), insurance paid \$136,75. No damage to contents.

Box 8. Wednesday, May 14, 3.46, p. m. Four-story brick block, 1168 Elm street, owned by Orrin E. Kimball, and occupied as Roll Skin Manufactory. Cause unknown. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building \$20,000, damage \$340, insurance \$5000, insurance paid \$340. Value of contents \$20,000, damage 1186.90, insurance \$19,500, insurance paid \$186.90. Extinguished by Chemical Engine.

Box 72. Thursday, May 15, 1.32 A. M. Two-story house, 287 Lake avenue, owned by Mrs. Gideon Laville, and occupied by Richard J. Brickley and John Sullivan. Slight fire in basket of wood in cellar, started from some unknown cause. No damage. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3.

STILL. Thursday, May 15, 11.30 A. M. Brush fire on Mammoth road. Responded to by delegation from Engine and Ladder Company No. 5. Used 4 charges Pony. No damage.

STILL. Thursday, May 15, 10.45 p. m. Three-story brick building, 984 Elm street, owned by Kimball heirs and occupied by Daniel A. Gallagher as cigar store. Cause, gas jet. No damage. Chemical responded. No services required.

STILL. Saturday, May 17, 6.05 A. M. Two-story wooden building, 1205 Elm street, owned by E. L. Kimball, and occupied by Derryfield Steam laundry. Slight fire on roof. Chemical Engine responded. Used 1 tank. No damage.

STILL. Saturday, May 17, 6.20 A. M. Four-story brick building, corner Auburn and Canal streets, owned by Gordon Woodbury, and occupied by sundry firms. Cause, sparks from chimney, igniting shavings in boiler room. Hose Company No. 1 responded.

STILL. Saturday, May 17, 7.15 A. M. Derryfield Steam Laundry. Slight fire on roof. Chemical Engine responded. Used 1 tank.

Box 24. Saturday, May 17, 8 A. M. Cottage house, 496 Hall street, (while undergoing repairs). Cause unknown. Box pulled by citizen. Companies responding: Engines 3, 4, Hose 1, 2, Truck 3. Value of building \$2,000, damage \$139.50, insurance \$1,500, insurance paid \$139.50. No damage to contents.

STILL. Saturday, May 17. 3.40 p. m. Brush fire on land owned by George S. Eastman on the Mast Road. Members of Engine Company No. 2 responded with hose wagon. Laid 350 feet of hose from hydrant.

STILL. Sunday, May 18, 11.30 A. M. Brush fire on land owned by A. G. Gray on Calef road. Members of Hose Company No. 3 responded with wagon. No damage.

STILL. Sunday, May 18, 1.15 p. m. Brush fire on north Union street. Detail from Engine and Ladder Company No. 5 responded. Used 5 charges of Pony.

2-2-2. Sunday, May 18, 2.50 p. m. Brush fire in Lovell's grove, Massabesic lake. Detail of men responded. Under control on their arrival.

STILL. Sunday, May 18, 4.30 p. m. Brush fire on Dunbarton road, on

land owned by Maxwell, Bocclair and Holbrook. Detail from Engine and Ladder Company No. 6, responded. On duty, 7 hours and 50 minutes.

2-2-2. Sunday, May 18, 8.20 P. M. Sent delegation from Central station to assist at the above mentioned fire on Dunbarton road.

2-2-2. Monday, May 19, 11.05 A. M. Brush fire on Dunbarton road. Responded to by delegation from Central station, and Engine and Ladder Companies 5, 6.

STILL. Friday May 23, 9.02 A. M. Slight fire on shingles of Derryfield laundry, 1205 Elm street. Chemical Engine responded. No damage.

STILL. Friday, May 23, 10.06 A. M. Brush fire on land of Perry H. Dow on River road. Delegation from Central station and Engine and Ladder Company No. 5 responded.

Box 8. Friday, May 23, 6.42 P. M. Three-story wooden block 1227 Elm street, owned by Ramsey, Bailey & Drury, and occupied by Assad M. Baroody for the manufacture and sale of confectionery. Cause, boiling over of candy kettle. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building \$15,000, damage \$100, insurance \$5,000, insurance paid \$100. Value of contents \$1,000, damage \$268, insurance \$600, insurance paid \$268.

STILL. Saturday, May 24, 7.20 P. M. Chimney fire in tenement house, 58 Winter street, owned by James Leach of Bedford, and occupied by several families. Members of Engine Company No. 2 responded. Used 2 charges of Pony. No damage.

Box 4. Sunday, May 25, 10.28 P. M. Three-story tenement block, 240 Chestnut street, owned by heirs of Dr. Thomas Wheat. Cause, breaking of kerosene lamp. No damage to building. Fire extinguished before arrival of department. Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. Mrs. Sophia Rogella slightly burned about neck and forehead.

STILL. Wednesday, May 28, 1.40 P. M. Chimney fire in two-tenement wooden building, 382 North Main street, owned by Thomas Bolton, and occupied by Mrs. Mary Nolan. Members of Engine and Ladder Company No. 6 responded. Used two charges of Pony. No damage.

STILL. Wednesday, May 28, 2.45 P. M. The foregoing fire ignited woodwork in partition, causing slight damage. Members of Engine and Ladder Company No. 6 responded. Used two charges of Pony.

Box 52. Saturday, May 31, 8.23 A. M. Two and a half-story double tenement house 26 North Main street, owned by Frank P. Johnson and occupied by Joseph Larime. Cause, probably a smoker's pipe in clothing. Damage slight. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of building \$1,800, damage \$20, insurance \$600, insurance paid \$20. Value of contents \$150, damage \$8.00. No insurance.

STILL. Saturday, May 31, 2.15 P. M. Three and a half-story brick block, 83 Hanover street, owned by I. O. O. F. and occupied by them and others. Explosion of gasoline caused slight damage. Chemical Engine responded. Services not required.

STILL. Tuesday, June 3, 9.30 A. M. Two and a half story dwelling 232 Lake avenue, owned and occupied by Richard J. Barry. Cause, explosion of gas from stove. Members of Engine and Ladder Company No. 3 responded with hose carriage. Services not required.

Box 4. Thursday, June 5, 8.31 P. M. Two and a half story tenement block, 77 Lake avenue, owned by William Plumer estate, and occupied by Martin Psaybyla as a Polish boarding house. Cause, breaking of a kerosene lamp in a room in second story. Box pulled by citizen. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, 3, Trucks 1, 3. Value of building \$1,800, damage \$416.50, insurance \$800, insurance paid \$416.50. Value of contents \$600, damage \$100, no insurance.

Box 4. Tuesday, June 10, 9.02 A. M. Barn in rear of 558-562 Elm street, owned by B. W. and W. C. Blodgett and occupied by C. E. Newcomb. Cause, hot ashes carelessly dumped from tenement adjoining. Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. Extinguished with pails of water, with little damage.

STILL. Friday, June 13, 8.05 P. M. Chimney fire in brick tenement block, 13 Boyden street, owned by Amoskeag Manufacturing Co., and occupied by James Barry. Chemical engine responded. Used one charge of Pony.

Box 4. Wednesday, June 18, 1.51 P. M. Small barn in rear of 54 Cedar street, owned by Patrick Harrington, and occupied by Peter Beauchamp. Cause, children playing with matches. Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. Value of building \$150, damage \$80, insurance \$100, insurance paid \$80. Value of contents \$25, damage \$5, no insurance.

Box 82. Tuesday, June 24, 8.22 P. M. Four-story brick block, 480 Chestnut street, owned by Alonzo H. Weston, and occupied by several families. The breaking of a kerosene lamp in tenement of Cunningham sisters, caused the alarm. Fire extinguished by occupants. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. No damage.

STILL. Friday, June 27, 11.10 A. M. Two-story wooden building, corner Amherst and Pine streets, owned by Rt. Rev. Bishop D. M. Bradley, and used by the Sacred-Heart Hospital as laundry. Cause unknown. Chemical engine responded. Value of buildings, \$2,500; damage, \$12.41; insurance \$1,700; insurance paid \$12.41.

STILL. Sunday, June 29, 9.10 A. M. Four-story brick block 4 Dean avenue, owned by heirs of W. S. James, and occupied by J. Arthur Williams, as printing office. Chemical engine responded. No services required.

Box 4. Tuesday, July 1, 3.39 P. M. Three-story wooden tenement block, 70-72 Spruce street, owned by Wm. G. Cotter, and occupied by John F. Larkin, as a plumber's shop, and several families to wit: William G. Cotter, Andrew Mantres, Bridget Linnehan, Mary Sullivan. The fire originated in the plumber's shop, caused by a naphtha "blow stove." Box pulled by

citizen. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, 3, Trucks 1, 3. Value of building \$3,090, damage \$1,155, insurance \$3,000, insurance paid \$1,155. Value of contents \$500, damage \$301, insurance, \$500; insurance paid \$301.

Box 323. Friday, July 4, 5.23 p. m. A small hen house in rear of 386 Bartlett street, owned by Leonard Grenier, and occupied by Harrie Bouche. Cause, fire crackers. Box pulled by Deslitt Paquette. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of building \$40, damage \$10, no insurance. No damage to contents.

Box 81. Monday, July 7, 3.17 p. m. Three two-and-a-half-story houses, 120, 122 and 124 Concord street, owned by Mrs. John D. Bean, Mrs. Ellen Kerrins and Mrs. Nellie Kelleher. The Bean house was occupied by L. C. Fitzpatrick, Fred. Legrasse, Theo. Isabell and James Welch; the Kerrins house by Margaret Hixon and Axerd Doucette; the Kelleher house by Gedeon Marracette and Edmund Hamlin. The fire originated in a quadrangular court in rear of all three buildings, from some unknown cause, and gained much headway before being discovered. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, Truck 1. Value of Bean's building \$3,500, damage \$1,487.75, insurance \$2,500, insurance paid \$1,487.75. Value of Kerrins's building \$3,000, damage \$300, no insurance. Value of Kelleher heirs building \$3,000, damage \$17.50, insurance \$2,000.

STILL. Friday, July 11, 12.05 p. m. Chimney fire in tenement block, 19 Clinton street, owned by George S. Eastman and occupied by several families. Responded to by members of Engine No. 2 with hose carriage. Used 1 charge of Pony. No damage.

Box 71. Saturday, July 12, 11.32 a. m. False alarm. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3.

STILL, Sunday, July 13, 7 p. m. Chimney fire in tenement block, 7 Laurel avenue, owned by Mrs. McAllister. Chemical Engine responded. No damage.

Box 31. Sunday July 13, 9 13 p. m. Three-story dwelling house, 34 Concord street owned by John Mahaney, and occupied by Henri Berthiaume as boarding house. Cause, breaking of kerosene lamp. Box pulled by C. F. Kemp. Companies responding: Engines 1, 4, Chemical, Hose 1, Truck 1. Damage to contents \$600, no insurance.

STILL Monday, July 14, 11.22 p. m. During a severe thunder storm, the electric light transformer at residence of E. M. Slayton, 1602 Elm street, caught fire from the lightning. Chemical Engine responded. Services not required.

Box 261. Tuesday, July 15, 6.02 p. m. Two-story dwelling house, 356 Orange street, owned by Eliza A. Turner of Candia, and occupied by Mrs. Fannie Spencer. Cause, kerosene stove. Mrs. Spencer was slightly burned about the head and neck. Box pulled by Joseph Durgin. Companies responding: Engines 1, 3, Chemical, Hose 1, 2, Truck 3. Value of building \$2,500, damage \$138, insurance \$2,000, insurance paid \$138. Value of contents \$500, damage 15, no insurance.

STILL. Tuesday, July 22, 1.23 p. m. Two and half-story wooden house owned by Mary A. Willis, and occupied by Patrick Hickey. Cause, burning chimney. Used 1 charge of Pony. No damage.

STILL. Sunday, July 27, 9.10 p. m. Four-story brick "Upton" block owned by Manchester Savings Bank, and occupied by sundry persons. The fire originated from some unknown cause, in Room 2 on second floor, occupied by Philip F. Ouimette. Chemical Engine responded. Value of building \$30,000, damage \$18, insurance \$30,000, insurance paid \$18. Value of contents (room 2) \$500, damage \$48.85, insurance \$400, insurance paid \$48.85.

STILL. Saturday, August 2, 5.30 p. m. Brick foundry, on South Elm street, owned and occupied by American Locomotive Co. Cause, sparks on roof. Members of Hose Company No. 3 with carriage responded. Used 1 charge of Pony. No damage.

Box 323. Wednesday, August 6, 12.04 A. M. Barn in rear of cottage house, 473 Bartlett street, owned and occupied by Napoleon Normand. Cause, unknown. Fire first discovered in hay-loft by Normand who pulled the box. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of building \$3,000, damage \$800, insurance \$1,900, insurance paid \$800. Value of contents \$2,300, damage \$725, insurance \$1,475, insurance paid \$725.

STILL. Thursday, August 7, 6.45 p. m. Tenement house, 127 Amherst street, owned by L. W. Sanborn, and occupied by John Selner. Cause, rags in a closet from some unknown cause. Chemical Engine responded. Extinguished before their arrival.

STILL. Friday, August 8, 8.45 p. m. An oak tree and fence post on North River road on railroad bank, set fire by boys. Members of Engine and Ladder Company No. 5 responded. Used 1 charge of Pony.

STILL. Sunday, August 10, 9.45 A. M. Chimney fire in tenement block, 88 Pearl street, owned by estate of David H. Young, and occupied by W. Smith and others. Chemical Engine responded. No damage.

Box 313. Tuesday, August 12, 8.55 p. m. Three and half-story wooden block, 485 North Main street, owned by estate of E. W. Sargent and occupied by H. Desrosiers and others. Cause, unknown. Fire was confined to a worthless couch in an unoccupied attic. Box pulled by citizen. Companies responding: Engines 1, 2, 6, Chemical, Hose 1, Truck 1. No damage. Extinguished with Pony.

STILL. Sunday, Aug 17, 7.30 A. M. Sparks from furnace on roof of Iron Foundry of American Locomotive Company, at corner of Elm and Valley streets. Members of Hose Company No. 3 responded with hose wagon. Used 1 charge of Pony. No damage.

STILL. Monday, August 18, 10.55 A. M. Ash box in rear of and attached to Well's Block, 1054-1068 Elm street, Chemical Engine responded. No damage.

STILL. Saturday, August 23, 6.55 p. m. Chimney fire in dwelling house, 53 Winter street, owned and occupied by Henry J. Hatch. Mem-

bers of Engine Company Co. 2 responded. Used 1 charge of Pony. No damage.

STILL. Tuesday, August 26, 12.10 p. m. Chimney fire in tenement house, corner Spruce and Union street, owned by P. S. Conway, and occupied by H. McDonough. Hose wagon of Engine and Ladder Company No. 3 responded. Used 3 charges of Pony. No damage.

Box 71. Monday, September 1, 4.18 p. m. Two and a half story tenement house at 178 Cedar street, owned by Patrick Kean and occupied by B. Cohen. Cause, tipping over kerosene stove. No damage. Box pulled by citizen. Companies responding: Engine 1, 3, Chemical, Hose 1, Truck 3.

Box 15. Wednesday, September 3, 6.56 p. m. Cottage house, 92 Orange street, owned by Miss Abbie Gile, and occupied by Dr. Max S. Guggenheim. A couch in the front room upstairs ignited from spark from match. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Extinguished by Chemical Engine. Value of building \$1,600, damages \$37.56, insurance \$1,500, insurance paid \$37.56. Value of contents \$1,000, damage \$125, insurance \$750, insurance paid \$100.

STILL. Friday, September 5, 7.05 p. m. Chimney fire in tenement house, 472 Granite street, owned by James F. Wyman, and occupied by several families. Members of Engine Company No. 2 responded. Used 3 charges of Pony. No damage.

STILL. Saturday, September 13, 7.49 A. M. An unadjusted Thermostat at the Rimmon Shoe Shop, occupied by H. B. Reed & Co., caused a false alarm on private line to Engine and Ladder Company No. 6. Members of that company responded with hose carriage. No damage.

STILL. Tuesday, September 16, 11.35 A. M. Wooden tenement block, 56 Concord street, owned by Joseph Quirin and others, and occupied by several families. Cause, overheated chimney. No damage.

Box 4. Wednesday, September 17, 12.50 A. M. Three tenement house, 100 Lake avenue, owned by Peter J. Giblin, and occupied by him and John Currie and A. Albert. Cause, funnel from stove running through clothes closet. Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. Value of building \$10,000, damage \$60, insurance \$5,000, insurance paid \$60.

STILL. Friday, September 19, 6.30 p. M. Chimney fire in tenement house 379 Manchester street, owned by J. Burgess and occupied by William Moore. Members of Engine and Ladder Company No. 3 responded. Used 1 charge of Pony. No damage.

STILL. Friday, September 26, 3.25 p. m. Tenement block, 423 Chestnut street, owned by heirs of John D. Patterson, and occupied by Joseph Boisvert and others. Cause, soot in old fireplace. Used 1 charge of Pony. No damage.

STILL. Saturday, September 27, 7.30 p. m. Slight fire in woodshed connected with residence of Arthur E. Clarke on North River Road. Hose

carriage of Engine and Ladder Company No. 5 responded. Fire extinguished before its arrival.

BOX 81. Sunday, October 5, 4.55 P. M. Three-story brick block at 986 Elm street, corner Mechanic, owned by Kimball & Hobbs, and occupied (up-stairs where fire originated) by Nellie S. Post. Cause, spontaneous combustion of rags in closet. Damage slight. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, Truck 1.

STILL. Friday, October 10, 5.58 P. M. Chimney fire in tenement house, 563 North Main street, owned by Joseph Moreau, and occupied by Lewis Dennis. Members of Engine and Ladder Company No. 6 responded with hose carriage. Used 2 charges of Pony. No damage.

BOX 4. Sunday, October 12, 8.42 A. M. Chimney fire in tenement block, 525 Elm street, owned by E. M. Slayton, and occupied by Salem Samara and others. No damage. Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3.

BOX 4. Tuesday, October 14, 6.42 P. M. An over-turned lamp in tenement block, 585 Elm street, owned by Gordon Woodbury, and occupied by several families, caused slight damage to building. Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. Value of building \$3,000, damage \$10, insurance \$1,500, insurance paid \$10. No damage to contents.

STILL. Friday, October 17, 7 A. M. Chimney fire in house, 36 Plummer street, owned by A. W. Kidder, and occupied by Leander L. Hall. Hose company 3 responded. No damage.

STILL. Tuesday, October 21, 8.20 P. M. Chimney fire in dwelling house, 203 Merrimack street, owned and occupied by Perry A. Eaton. Used 2 charges of Pony. No damage.

STILL. Wednesday, October 22, 8.30 A. M. Chimney fire in cottage house, 28 Warren street, owned and occupied by Ralph Pearson. Chemical engine responded. Used 1 charge of Pony.

BOX 26. Thursday, October 23, 7.43 A. M. One-story wooden building, 277 Bridge street, owned by Mrs. Georgie A. Williams, and occupied by N. J. Beaumie as a plumber's shop. Cause, match dropped in oakum. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 2, Truck 5. Value of building \$200, damage \$25, no insurance. Value of contents \$1,000, damage \$47, insurance \$1,000, insurance paid \$40.25.

STILL. Thursday, October 23, 6.50 P. M. Trolley car on Elm street, between Amherst and Concord streets, belonging to Manchester Street Railway. Cause, "short circuit." Chemical engine responded. Damage slight.

STILL. Saturday, October 25, 9.06 A. M. Coal-sheds of Moore & Preston, corner Beech and Valley streets. The "soft" coal in one of the bins ignited from spontaneous combustion. Hose Company No. 3 responded and Hose wagon from Engine and Ladder No. 3. No damage.

STILL. Friday, October 31, 9.45 P. M. Chimney fire in three-story wooden block, 425 Chesnut street, owned by heirs of John D. Patterson, and occupied by William Maynard. No damage.

STILL. Monday, November 10, 9.07 P. M. Rags in the cellar of cottage-house, rear of 64 Cedar street, owned by Hugh Kelley, and occupied by Mrs. Margaret Moriarty. Chemical Engine responded. No damage.

Box 21. Tuesday, November 11, 3.01 P. M. Two-story dwelling-house rear of 184 Lake avenue, owned and occupied by Charles S. Hadley Cause, defective chimney. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building \$1,500, damage \$160, insurance \$1,000, insurance paid \$160. Value of contents \$300, damage \$10, insurance \$200, insurance paid \$10.

STILL. Friday, November 14, 3.45 P. M. Chimney fire at 19 Elm avenue, owned and occupied by Charles Brigham. Hose Company No. 3 responded. Used 1 charge of Pony. No damage.

STILL. Friday, November 14, 10.15, P. M. Chimney fire in tenement block, 346 Pine street, owned by the Order of Hibernians, and occupied by Mrs. James Donohoe and others. No damage.

STILL. Thursday, November 20, 12.25 P. M. Electric light wire with insulation worn off, scared someone. No damage and no fire. Members of Engine and Ladder Company No. 6 responded with hose carriage.

Box 511. Friday, November 21, 1.35 P. M. Cottage house, 254 Douglass street, owned by Mrs. William A. Chamberlin and occupied by Carl Peterson and Marie Holmquist. Defective flue caused partition to ignite and fire to spread to second floor. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, and Truck 6. Value of building \$2,800, damage \$54.25, insurance \$1,500, insurance paid \$54.25. No damage to contents.

STILL. Saturday, November 22, 1.09 P. M. Grass fire in Stark park. Set by locomotive of Boston & Maine railroad. Hose carriage from Engine and Ladder No. 5 responded.

Box 261. Monday, November 24, 5.13 P. M. Brush fire in the Amoskeag Manufacturing Co.'s woods on Smyth road. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 2, Truck 3.

STILL. Monday, November 24, 8.15 P. M. Two and half-story house, 259 East Spruce street, owned by Miss Lizzie Burrows, and occupied by two families. Cause, overheated stove. No damage. Members of Engine and Ladder Company No. 3 responded with hose carriage.

STILL. Wednesday, November 26, 6.03, A. M. Chimney fire in three tenement block, corner of Wayne and McGregor streets, owned by David Labonte, and occupied by several families. Members of Engine and Ladder Company No. 6 responded with hose carriage. Used 1 charge of Pony. No damage.

STILL. Wednesday, November 26, 11.00 A. M. Chimney fire in tenement block (rear), 185 Manchester street, owned by Platts Bros., and occupied by John Norton. No damage.

STILL. Tuesday, December 2, 6.10 P. M. Chimney fire in three-story brick house, corner Elm and Salmon streets, owned and occupied by Mrs. Frederick Smyth. Members of Engine and Ladder Company No. 5 re-

sponded with hose carriage. Used 1 charge of Pony. No damage.

STILL. Tuesday, December 2, 8.05 p. m. Chimney fire in dwelling house, 520 Beech street, owned and occupied by Mrs. Lizzie Foster. No damage.

STILL. Thursday, December 4, 7.55 p. m. Chimney fire in tenement house, 266 East Spruce street, owned by David Labonte, and occupied by Jules Larivee. Chemical Engine responded. Used 1 charge of Pony. No damage.

STILL. Friday, December 5, 9.54 a. m. Chimney fire in dwelling house, 323 Prospect street, owned and occupied by J. A. Chamberlin. Members of Hose Company No. 2 responded. Used 1 charge of Pony. No damage.

STILL. Friday, December 5, 9.56 a. m. Chimney fire in tenement house, 57 Amory street, owned by Lawrence Connor, and occupied by two families. Members of Engine and Ladder Company No. 6 responded with Hose carriage. Used 2 charges of Pony.

STILL. Friday, December 5, 12.05 a. m. Chimney fire in tenement block, corner River road and Monroe streets, owned by Alonzo Elliott, and occupied by several families. Members of Engine and Ladder Companies responded with hose carriage. Used 4 charges of Pony.

STILL. Friday, December 5, 6.17 p. m. Chimney fire in three-story dwelling at 120 Auburn street, owned and occupied by Mrs. Bridget Britton. Used 1 charge of Pony. No damage.

STILL. Friday, December 5, 6.20 p. m. Chimney fire in dwelling house, 29 Winter street, owned and occupied by John Langan. Members of Engine Company No. 2 responded with combination. Used 1 charge of Pony. No damage.

Box 216. Friday, December 5, 6.43 p. m. Needless alarm for chimney fire in cottage house 881 Somerville street, owned by R. J. Bennett and occupied by William D. Howe. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 2, Truck 3.

STILL. Friday, December 5, 6.47 p. m. The chimney fire at 120 Auburn street required further attention and Hose Company No. 1 responded. Used 2 charges of Pony. No damage.

STILL. Saturday, December 6, 7.15 p. m. Two and a half story tenement house, 352 Dubuque street, owned by Louis Beaudoin, and occupied by two families. Cause, matches in pockets of clothes. Members of Engine and Ladder Company No. 6 responded with hose carriage. Used 1 charge of Pony and laid 150 feet of hose from hydrant.

STILL. Saturday, December 6, 9.15 p. m. Chimney fire in three-story tenement house, 196 Hanover street, owned by Smyth & Kendall heirs, and occupied by several families. Used one charge of Pony. No damage.

Box 321. Monday, December 8, 9.03 a. m. Four-story wooden building (Notre-Dame Hospital), corner of Beauport and Wayne streets, owned by the Notre-Dame Hospital Association (incorporated). Cause, electric wires. Box pulled by citizen. Companies responding: Engines 2, 6,

Chemical, Hose 1, Truck 6. Value of building \$40,000, damage \$160, insurance \$30,000, insurance paid \$160.

STILL. Monday, December 8, 10.15 A. M. Notre-Dame Hospital. A few sparks between the floors after the above-mentioned fire, called members from Engine & Ladder Company No. 6. Used 1 charge of Pony.

Box 312. Monday, December 8, 6.40 P. M. Chimney fire in three-story tenement block, 23 Wayne street. Box pulled by citizen. Companies responding: Engines 1, 2, 6, Chemical, Hose 1, Truck 6. Used 2 charges of Pony.

Box 52. Monday, December 8, 7.57 P. M. Chimney fire in three-story tenement block, 415 Granite street, owned by E. S. McDerby and occupied by several families. Box pulled by police officer. Companies responding: Engines 2, 6, Hose 1, Truck 6. Used 3 charges of Pony. No damage.

Box 26. Monday, December 8, 9.08 P. M. Cottage house, 260 Lowell street, owned by Mrs. George W. Morgan, and occupied by Fred. M. Oliver. Cause, broken lamp. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 2, Truck 5. Value of building, \$1,800, damage \$400, insurance \$1,500, insurance paid \$400. Value of contents \$2,200, damage \$509.15, insurance \$1,000, insurance paid \$509.15.

Box 8. Tuesday, December 9, 10.55 A. M. Wooden-tenement block, 9 Kidder street, owned by Amoskeag Manufacturing Co., and occupied by Dennis Sweeney. Cause, burning rags in cellar. No damage. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

STILL. Tuesday, December 9, 3.15 P. M. Chimney fire at 398 Union street, owned by Gordon Woodbury, and occupied by Ulric Bourgeois. Members of Engine and Ladder Company No. 3 responded. Used 2 charges of Pony.

STILL. Tuesday, December 9, 4.46 P. M. Chimney fire in tenement block, 9 Clark avenue, owned by Clark and Higgins heirs, and occupied by John Green and others. Used 3 charges of Pony. No damage.

Box 321. Wednesday, December 10, 11.24 A. M. Four-story wooden building, corner Wayne and Cartier streets, owned by Rt. Rev. Bishop D. M. Bradley. Cause, spontaneous combustion of chemicals in book-case. Box pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Truck 6. Value of contents \$3,000, damage \$209.75, insurance \$2,000, insurance paid \$209.75.

Box 8. Thursday, December 11, 12.40 A. M. One-story wooden building, 20 Pearl street, owned by George H. Dorr, and occupied by David S. Berry, as a bicycle repair shop. Cause, gasoline torch thawing pipes. Box pulled by Officer Marden. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building \$950, damage \$211.33, insurance \$950, insurance paid \$211.33. Value of contents \$900, damage \$600, no insurance.

STILL. Thursday, December 11, 5.35 P. M. Three-story wooden tene-

ment block, 659 Chestnut street, owned by Mrs. Charles J. Senter, and occupied by J. J. Noonan. Cause, clothes on stove. Members of Engine and Ladder Company No. 5 responded with hose carriage.

Box 115. Friday, December 12, 4.31 P. M. Cottage house, 692 Maple street, owned by Mrs. Alma A. Piper, and occupied by A. E. Felton. Cause, over-heated furnace, funnel too near wood-work. Box pulled by Charles Hammond. Companies responding: Engines 1, 5, Chemical, Hose 1, Truck 5. Value of building \$2,250, damage \$75, insurance \$1,500, insurance paid \$50. No damage to contents.

STILL. Friday, December 12, 6.05 P. M. Chimney fire in tenement house 131 Amherst street, owned by Dr. J. A. Jackson, and occupied by John Boisvert. Used 1 charge of Pony. No damage.

STILL. Friday, December 12, 7.30 P. M. Chimney fire in fifteen tenement block, 172 McGregor street, owned by Pillsbury & Watts, and occupied by several families. Members of Engine and Ladder Company No. 6 responded with carriage. Used 3 charges of Pony. No damage.

STILL. Monday, December 15, 8.10 P. M. Chimney fire at 193 Cedar street owned by Edward Duffie, and occupied by John Sullivan. Members of Chemical Company responded. No damage.

Box 321. Tuesday, December 16, 10.41 A. M. Four-story tenement block, 22 Wayne street, owned by Kate X. Collity, and occupied by Thos. Bellman. Cause, child playing with kerosene can. No damage to building. Two children were burned, one fatally. Box pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Truck 6.

Box 71. Tuesday, December 16, 7.03 P. M. A "cross" of an electric wire at corner of Beech and Lake avenue back street, was the cause of a foolish and needless alarm. Companies responding: Engines 1, 3, Chemical, Hose 1, Truck 3.

Box 21. Thursday, Dec. 18, 6.17 P. M. Chimney fire in tenement house, 57 Central street, owned by Oliver B. Green, and occupied by Jerry Langley, John McLaughlin, and T. Cota. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 2, Trucks 1, 3. No damage.

STILL. Saturday, December 20, 10.45 A. M. Chimney fire in cottage house, 831 Chestnut street, owned by J. B. Jones, and occupied by Jesse B. Nourse. Members of Engine and Ladder Company No. 5 responded. Used 1 charge of Pony. No damage.

STILL. Saturday, December 20, 5.57 P. M. Chimney fire in Shea's block, corner Union and Bridge streets. No damage. No fire found. Members of Hose Company No. 2 responded.

STILL. Saturday, December 20, 9 P. M. Three-story tenement house, 33 Cedar street owned, by Daniel Mahoney, and occupied by John Segelos and others. Silght fire near chimney in partition. Cause, rats and matches. Members of Chemical responded.

STILL. Monday, December 22, 10.08 A. M. Four-story brick block, 885 Elm street, owned by John A. Riddle, and occupied by sundry persons.

Cause, clothes too near stove in room 34, occupied by Mrs. Harriet Short. Damage slight. Members of Chemical responded.

STILL. December 24, 10.20 A. M. Chimney fire in dwelling house, 318 North Main street, owned by Nelson Duval, and occupied by James Duval. Members of Engine Company No. 2 responded with Combination Used 1 charge of Pony. No damage.

Number of bell alarms	71
Number of "still" alarms	127
Total	198

Aggregate losses for 1902	\$370,819.08
Amount of insurance paid	200,804.70
Net losses uncovered by insurance	\$170,014.38

COMPANIES RESPONDING.

MONTHS.	ENGINES.						Chemical.	HOSE.			TRUCK.			
	1	2	3	4	5	6		1	2	3	1	3	5	6
January	4	3	3	5	3	2	8	7	4	3	3	3	3	2
February.....	4	3	4	3	1	.....	7	6	3	1	4	4	1	.....
March	2	1	1	1	1	2	5	2	1	1	2	1	1	2
April	2	2	1	3	3	3	9	3	3	2	1	1	3	2
May	4	4	7	9	3	2	16	11	4	4	6	7	3	1
June	2	3	3	3	1	.....	7	4	1	3	4	3	1	.....
July	4	2	3	3	.....	1	9	6	1	1	3	3	.....	1
August.....	1	2	.....	.....	.....	2	5	2	.....	2	.....	.....	.....	2
September	2	1	2	2	1	.....	3	3	1	1	2	2	1	.....
October	2	2	3	3	.....	.....	6	4	1	4	3	2	1	.....
November	1	1	2	1	.....	1	4	2	1	1	1	2	.....	1
December	1	5	4	3	3	5	10	11	5	1	3	3	4	5
Total.....	35	29	33	36	16	18	89	61	25	24	32	31	18	16

ESTIMATED VALUE OF PROPERTY.

Engine No. 1.

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer	\$4,000.00
1 one-horse wagon	400.00
3 gray horses for steamer	600.00
1 gray horse for hose wagon	200.00
4 swinging harnesses	200.00
1 pair double exercise harnesses	50.00
1 single exercise harness	40.00
2,000 feet fabric hose	900.00
Stable fixtures, blankets, etc.	80.00
Tools, furniture and fixtures	200.00
Firemen's suits and badges	125.00
Total amount	<u>\$6,795.00</u>

Engine No. 2.

LOCATED AT NORTH MAIN STREET, 'SQUOG.

1 second-size Amoskeag steamer	\$4,000.00
1 Combination Chemical and Hose wagon	1,700.00
1 exercise wagon, poles, shafts, and three-horse hitch . . .	250.00
3 horses for steamer	600.00
1 pair horses for hose wagon	400.00
3 exercise harnesses, 2 at \$40, 1 at \$20	100.00
5 swinging harnesses	250.00
1 double sled	60.00
3150 feet fabric hose	1,417.50
Stable fixtures and blankets	94.00
Furniture, fixtures, carpets, etc.	466.00
Firemen's suits and badges	125.00
Total amount	<u>\$9,462.50</u>

Engine and Ladder No. 3.

LOCATED ON LAKE AVENUE, CORNER MASSABESIC STREET.

1 second-size Amoskeag steamer	\$3,500.00
1 two-horse hose wagon	400.00

1 two-horse truck and equipments	1,700.00
1 three-horse hitch attachment (extra)	200.00
1 pair horses for steamer	250.00
1 pair bay horses for hose wagon	400.00
1 pair black horses for truck	300.00
3 exercise harnesses, 2 at \$50, one at \$40	140.00
6 swinging harnesses	300.00
3,400 feet fabric hose	1,530.00
Stable fixtures, blankets, etc.	80.00
Beds, bedding, carpets, hall furniture, etc.	575.00
Firemen's suits and badges	150.00
1 exercise wagon	250.00
Total amount	\$9,775.00

Engine No. 4.

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer	\$4,200.00
1 hose wagon	400.00
3 horses for steamer	600.00
1 horse for hose wagon	150.00
4 exercise harnesses	60.00
4 swinging harnesses	200.00
2,050 feet fabric hose	922.50
Hall furniture, beds, bedding, etc.	275.00
Stable fixtures and blankets	75.00
Firemen's suits and badges	125.00
Total amount	\$7,007.50

Engine and Ladder No. 5.

LOCATED ON WEBSTER STREET, CORNER CHESTNUT.

1 third-size Amoskeag steamer	\$3,600.00
1 two-wheeled Amoskeag hose carriage	600.00
1 steel frame ladder truck	1,650.00
1 pair bay horses for steamer	400.00
1 pair bay horses for truck	400.00
1 bay horse for hose carriage	200.00
1 exercise wagon	325.00

1 double sled	50.00
5 swinging harnesses	250.00
2 pairs exercise harnesses	100.00
2,350 feet fabric hose	1,057.50
Bedding, furniture, tools, etc.	247.00
Stable fixtures, blankets, etc.	90.00
Firemen's suits, badges, etc.	150.00
Total amount	<u>\$9,119.50</u>

Engine and Ladder No. 6.

LOCATED AT CORNER AMORY AND RIMMON STREETS.

1 second-size Amoskeag steamer	\$3,500.00
1 hook-and-ladder truck, (with Bangor extension	1,680.00
1 one-horse carriage	600.00
2 gray horses for steamer	300.00
2 bay horses for truck	267.00
1 gray horse for hose carriage	150.00
5 swinging harnesses	250.00
2,200 feet fabric hose	990.00
Hall furniture, carpets, beds, bedding, etc.	375.00
Stable fixtures, blankets, etc.	85.00
Firemen's suits and badges	150.00
1 exercise wagon	290.50
Total amount	<u>\$8,637.50</u>

Hose No. 1.

LOCATED ON VINE STREET.

1 four-wheeled Amoskeag hose carriage	\$600.00
2 horses	300.00
2 single harnesses	70.00
1 set Hobbs' Runners	90.00
1 hose sled	20.00
3200 feet of fabric hose	1,440.00
Furniture and fixtures	200.00
Beds, bedding, etc.	60.00
Stable fixtures and blankets	50.00
Firemen's suits and badges	100.00
Total amount	<u>\$2,930.00</u>

Hose No. 2.

LOCATED ON MAPLE STREET, CORNER OF EAST HIGH.

1 two-horse hose wagon	\$600.00
2 bay horses	500.00
2 swinging harnesses	100.00
1 exercise wagon	325.00
2000 feet of fabric hose	900.00
150 feet leather hose	60.00
Furniture and fixtures, beds and bedding	150.00
Firemen's suits and badges	100.00
Total amount	<u>\$2,735.00</u>

Hose No. 3.

LOCATED ON SOUTH ELM STREET, BAKERSVILLE

1 combination hose wagon (with ladders)	\$1,000.00
1 pair gray horses	100.00
1 pair of swinging harnesses	100.00
1 pair exercise harnesses	50.00
1 exercise wagon	50.00
2100 feet of fabric hose	945.00
Furniture, fixtures, bedding, etc	85.00
Stable fixtures, blankets, etc	65.00
Firemen's suits and badges	80.00
Total amount	<u>\$2,475.00</u>

Hook and Ladder Co. No. 1.

LOCATED ON VINE STREET.

1 aerial hook-and-ladder truck	\$4,200.00
3 horses	600.00
3 exercise harnesses	75.00
3 swinging harnesses	150.00
2 extra Bangor extension ladders	360.00
3 rubber blanket covers	72.00

Furniture and fixtures	200.00
Beds, bedding and furniture	75.00
Stable fixtures and blankets,	60.00
Firemen's suits and badges	150.00
Total amount	\$5,942.00

Chemical Engine No. 1.

LOCATED ON VINE STREET.

1 double tank (60 gallons each) engine	\$2,250.00
1 pair bay horses	500.00
1 pair of exercise harnesses	50.00
1 pair swinging harnesses	100.00
Furniture and fixtures	75.00
Stable fixtures and blankets	50.00
Firemen's suits and badges	35.00
Total amount	\$3,060.00

Supply Wagon.

1 supply wagon, with boxes and engineers' lanterns	\$150.00
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Spare Hose Carriage and Hose.

AT CENTRAL STATION, VINE STREET.

1 four-wheeled hose carriage	\$400.00
400 feet fabric hose	288.00
1500 feet fabric hose (in process of re-lining)	280.00
Total amount	\$968.00

Exercise Wagon.

AT CENTRAL STATION, VINE STREET.

1 four-wheeled exercise wagon with pole, shafts, three horse hitch, and coal boxes	\$250.00
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E. W. Harrington Steam Fire Engine.

STORED AT SHEDS OF ENGINE NO. 2.

Old U. tank Amoskeag engine (worth for exchange)	\$200.00
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Engineer's Department.

1 Bay horse	\$325.00
5 engineers' white rubber coats	37.50
5 engineers' lanterns	20.00
Furniture and fixtures	150.00
Total amount	\$532.50

Riverside Hose Co. No. 5.

LOCATED AT CORNER OF OLD FALLS ROAD AND FRONT STREET.

1 four-wheeled hose carriage	\$400.00
800 feet leather hose	240.00
800 feet fabric hose	320.00
2 hose-pipes, spanners, etc	40.00
Furniture and fixtures	10.00
Total amount	\$1,010.00

Hallsville Hose Co. No. 6.

LOCATED AT CORNER OF MAMMOTH ROAD AND MASSABESIC STREET.

1 two-wheeled hose carriage	\$30.00
500 feet leather hose	150.00
Nozzle, wrenches, etc	15.00
Total amount	\$195.00

Goffe's Falls Hose Carriage.

LOCATED AT DEVONSHIRE MILLS.

1 two-wheeled hose carriage	\$30.00
400 feet fabric hose	160.00
2 hose-pipes	10.00
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Total amount	\$200.00

Pond Road Hose Carriage.

LOCATED IN BASEMENT OF W. P. FARMER'S BARN.

1 two-wheeled hose carriage	\$30.00
500 feet leather hose	150.00
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Total amount	\$180.00

Sleeping Hall.

AT CENTRAL STATION, VINE STREET.

5 beds, bedding, wardrobes, etc	\$200.00
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Extra Horses.

1 steel gray horse	\$150.00
1 gray horse	225.00
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Total amount	\$375.00

Fire Alarm Telegraph.

At cost, including additions	\$22,250.00
Remodeling in 1885	6,000.00
"Individual tapper" system	4,000.00
Storage battery (in 1898)	1,850.00
Switch protector board	175.00
Wire, brackets, and tools	250.00
Repair wagon	150.00
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Total amount	\$43,675.00

Recapitulation.

Engine Company No. 1	\$6,795.00
Engine Company No. 2	9,462.50
Engine and Ladder Company No. 3	9,775.00
Engine Company No. 4	7,007.50
Engine and Ladder Company No. 5	9,119.50
Engine and Ladder Company No. 6	8,637.50
The "Harrington" Engine	250.00
Hose Company No. 1	2,930.00
Hose Company No. 2	2,735.00
Hose Company No. 3	2,475.00
Hook and Ladder Company No. 1	5,942.00
Chemical Engine Company No. 1	3,060.00
Supply wagon	150.00
Exercise wagon (Central station)	200.00
Spare hose carriage and hose	968.00
Engineers' department	532.50
Riverside Hose Company	1,010.00
Hallsville Hose Company	195.00
Goffe's Falls Hose Company	200.00
Pond Road Hose Company	180.00
Sleeping Hall (Central Station)	200.00
Extra horses	375.00
Fire alarm telegraph	43,675.00
Total amount	\$115,874.50

BOARD OF ENGINEERS.

Badge No.	NAME.	Rank.	Occupation.	Residence.
1	Thomas W. Lane.....	Chief .....	.....	1937 Elm.
2	Clarence R. Merrill.....	Assistant.....	Grain dealer.....	414 Merrimack.
3	John Montplaisir.....	"	Grocer.....	Coolidge ave.
4	Fred S. Bean.....	"	Foreman	312 Pearl.
5	John F. Seaward.....	"	Carpenter.....	27 Warren.

ENGINE COMPANY No. 1.

House, 28 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
7	Charles F. McCoy	Captain	Machinist	50 Mechanic.
8	Frank E. Stearns	Lieutenant	Paper hanger	450 Merrimack.
18	James L. Brock	Clerk	Tinsmith	21 Market.
6	Charles F. Hall	Engineer	Engineer	28 Vine.
14	George B. Forsaith	Asst. engineer	Machinist	639 Chestnut.
11	Frank H. Harvey	Driver engine	Teamster	28 Vine.
12	Artemas C. Barker	Driver hose	"	28 Vine.
43	Frank B. Marston	Hoseman	Carpenter	823 Union.
15	Thomas J. Wyatt	"	"	925 Hayward.
9	Lewis G. Bryant	"	Coal dealer	423 Central.
17	Melvin Walker	"	Carpenter	6 Canal.
19	Charles H. Fraser	"	"	363 Concord.
13	Stanley H. Patten	"	Tinsmith	973 Elm.
10	George E. Boulton	"	Mill operative	355 Amherst.

ENGINE COMPANY No. 2.

House on North Main Street, Squoy.

Badge No.	NAME.	Rank.	Occupation.	Residence.
71	Ruel G. Manning	Captain	Carpenter	55 Douglass.
68	George P. Ames	Lieutenant	Supt. streets	43 Cartier.
76	Jeremiah Lane	Clerk and driver of engine	Teamster	210 No. Main.
120	Henry C. Morrill	Engineer	Engineer	53 Beauport
119	Stephen Thomes	Asst. engineer	Carpenter	55 Douglas.
69	Arthur W. Whitcomb	Driver of hose	Teamster	35 No. Main.
72	Samuel A. Hill	Hoseman	Carpenter	84 School.
75	Robert J. Hill	"	"	84 School.
77	Daniel B. Emery	"	Machinist	117 Williams.
73	Charles S. Consins	"	Harness-maker	151 Douglas.
74	Thomas C. Foote	"	Wool sorter	56 No. Main.
66	Joseph H. Alsop	"	Waste sorter	54 Douglas.
70	Charles M. Tewksbury	"	Clerk, B. & M. R.R.	278 Douglas.
67	James Ried	"	Truckman	431 Granite.

ENGINE AND LADDER COMPANY No. 3.

House on Lake Avenue, corner Massabesic.

Badge No.	NAME.	Rank.	Occupation.	Residence.
86	Frank F. Porter	Captain	Manufacturer	330 E. Spruce.
97	Edwin C. Paul	Lieut. of engine..	Collector	372 Lake ave.
84	Harry A. Piper	Lieut. of truck ...	Contractor	375 Lake ave.
148	Orren S. Coburn.....	Clerk	Clerk	386 Central.
122	John P. Walker.....	Engineer	Machinist	403 Hall.
98	Samuel M. Couch	Asst. engineer....	Blacksmith	447 Spruce.
105	Herbert E. Dunbar.....	Driver of engine	Teamster.....	310 Central.
81	William S. McLeod.....	Driver of hose...	"	419 Lake ave.
82	Lyman W. Piper	Driver of truck...	"	398 Merrimack.
114	John Wilson	Fireman	Carpenter	6 Linden.
80	Clarence Hackett.....	"	Laundryman	335 E. Spruce.
85	John W. Finn	"	Painter	501 Wilson.
88	George Taylor	"	Mechanic	582 Lake ave.
79	Louis N. Dufrain	"	Plumber	473 Hall.
89	Parker R. Brown	"	Grain dealer.....	422 Merrimack.
153	Edson F. Wyman.....	"	Manufacturer	368 E. Spruce.
87	George H. Wheeler.....	"	Teamster	384 E. Spruce.
78	George W. Albee	"	Clerk	271 Laurel.
150	Frank S. Shirley	"	Shoe cutter	413 Manchester
	Arthur S. Brown.....	"	Grain dealer.....	422 Manchester

ENGINE COMPANY No. 4.

House, No. 20 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
28	John H. Wales, Jr.....	Captain	Brick mason	2 M. S. B.
33	Thomas W. Lane, Jr.....	Lieutenant	Electrician	937 Elm.
23	George Thompson	Clerk	Clerk	85 Salmon.
21	Joseph H. Gould.....	Engineer	Machinist	20 Vine.
27	Edward Sargent.....	Asst. engineer	"	20 Vine.
31	George A. Cann.....	Driver of engine	Teamster	20 Vine.
29	Charles H. Rogers.....	Driver of hose	"	260 Pearl.
22	Walter A. Clarkson.....	Hoseman	Carpenter.....	301 Walnut.
25	Frank B. Stevens.....	"	Clerk	144 Blodget.
32	Lnther A. Knight.....	"	Engineer	16 Stark.
30	James C. Newton.....	"	Machinist.....	408 Manchester
26	Alfred Gustafson.....	"	"	20 Malvern.
20	Fred. H. Cate.....	"	Clerk	413 Merrimack.
24	Albert M. Tuson	"	Book-keeper	20 Vine.

ENGINE AND LADDER COMPANY No. 5.

House, No. 44 Webster Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
49	Charles W. Brown.....	Captain.....	Clerk	65 Harrison.
161	Irving S. Bryant.....	Licut. truck	Second hand	884 Union.
162	George N. Burpee	Lieut. Engine	Electrician	126 Sagamore.
46	Woodbury Davison	Clerk	Carpenter	772 Beech
102	Walter Morse	Engineer.....	Machinist.....	54 Appleton
45	Daniel W. Morse	Asst. engineer...	"	1419 Elm.
125	Emil H. Smith.....	Driver engine	Teamster	44 Webster.
124	Benjamin C. Cann	Driver truck.....	"	44 Webster.
83	Ernest E. Hubbell.....	Driver hose.....	"	44 Webster.
47	Russell L. Cilley	Hoseman.....	Clerk	863 Chestnut.
108	Edward L. Towle	"	"	72 N. Adams.
123	Charles H. Gile	"	Carpenter	44 Webster.
99	Will G. Frazer	"	Electrician	53 Pennacook.
158	Andrew S. Fantom.....	"	Cigar-maker	676 Maple
101	Charles W. Warner	"	Electrician	75 Sagamore.
126	Edwin M. Dorney	"	Tinsmith	254 Walnut.
41	Max Hawkins	"	Clerk	73 Appleton.
159	Charles E. Longa	"	"	10 N. Adams.
160	Morris Hoffman	"	"	321 Walnut.
95	George H. Chadwick	"	Electrician	41 Blodget.

ENGINE AND LADDER COMPANY No. 6.

House on Amory and Rimmon Streets.

Badge No.	NAME.	Rank.	Occupation.	Residence.
140	Frank W. Tebbetts.....	Captain	Loom-fixer	312 Cartier
147	James A. Farley	Lieut. engine	Machinist.....	385 Dubuque
142	Frank St. John	Lieut. truck	Janitor	76 Winter.
138	Thos F. Fitzsimmons...	Clerk	Painter	258 Beauport
132	Charles Edgar	Engineer	Engineer	Engine-house.
133	Aleide Provencher.....	Asst. engineer	Machinist	49 Sullivan.
134	Alphonso E. Foster.....	Driver engine.....	Teamster	Engine-house.
135	Charles M. Denyou	Driver hose	"	Engine-house.
136	Henry C. Crosby	Driver truck	"	Engine-house.
129	John Martin.....	Hoseman	Machinist.....	624 No. Main.
143	Henry Stein.....	"	Blacksmith.....	393 Hevey.
144	Arthur Provost.....	"	Wool sorter.....	526 Beauport.
145	John E. Herring	"	Loom-fixer	402 Rimmon.
131	John C. Gemmell	"	Laborer.....	27 Adams.
128	John H. McCabe	"	Clerk	310 No. Main.
139	Gideon Belisle	"	"	47 Bremer.
146	Richard F. Galway.....	"	Cigar-maker	460 No. Main.
230	Calvin Brinn	"	Loom-fixer	174 Cartier.
137	Wm. T. Lockhead.....	"	Molder	27 Adams.
141	Mederique Maynard	"	Grocer	324 Dubuque.

CHEMICAL ENGINE COMPANY No. 1.

House, 8 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
116	Clarence D. Palmer	Captain	Marble dealer.....	8 Vine.
115	Harvey E. Harris.....	Clerk	Laundry	249 Concord.
103	Benjamin R. Richardson..	Driver	Machinist.....	21 Ash.
117	George H. Porter.....	Pipeman.....	Carpenter.....	279 Laurel.
44	John W. Regner*.....	Fireman	Lineman	400 Merrimack.

*Detailed driver of supply wagon.

HOSE COMPANY No. 1.

House, No. 26 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
36	Joseph E. Merrill.....	Captain.....	Currier.....	370 Manchester
51	Edwin W. Merrill.....	Lieutenant.....	Clerk.....	370 Manchester
48	Albert A. Puffer.....	Clerk.....	Teamster.....	499 Beech.
37	Henry C. Parsons.....	Driver.....	".....	26 Vine.
35	Samuel W. Patten.....	Hoseman.....	Belt maker.....	3 M. S. B.
45	George I. Ayer.....	".....	Electrician.....	28 M. S. B.
50	Andrew S. Heath.....	".....	Clerk.....	27 Russell.
39	George W. Snaden.....	".....	Plumber.....	25 Nashua.
38	Will H. Nelson.....	".....	Gas-works emp.....	100 Brook.
53	Albert W. Tucker.....	".....	Collector.....	18 Brown ave.
34	Harry Barrett.....	".....	Machinist.....	26 Vine.
52	Charles H. French.....	".....	Electrician.....	7 Water.

HOSE COMPANY No. 2.

House on Maple Street, corner East High.

Badge No.	NAME.	Rank.	Occupation.	Residence.
55	Revalo C. Houghton.....	Captain.....	Gas-fitter.....	337 Lowell.
62	Julien B. Huntley.....	Lieutenant.....	Plumber.....	1103 Elm.
59	Joseph W. Batchelder.....	Clerk.....	Carpenter.....	521 Maple.
57	Ellsworth V. Rowe.....	Driver.....	Teamster.....	521 Maple.
60	Charles W. Powell.....	Hoseman.....	Carpenter.....	540 Maple.
61	Addison Seaward.....	".....	".....	1087 Elm.
63	James A. Rogers.....	".....	".....	761 Beech.
65	John M. Emerson.....	".....	Plumber.....	19 Russell.
58	Thomas Smith.....	".....	Carpenter.....	24 South.
64	Melvin W. Worthen.....	".....	".....	507 Maple.
54	Thomas P. Burnap.....	".....	".....	15 Liberty.
56	Fred W. Corey.....	".....	Needle-maker.....	497 Maple.

HOSE COMPANY No 3.

House South Elm Street.

Badge No.	NAME.	Rank.	Occupation.	Residence
110	Albert W. Smith.....	Captain	Fireman	23 Elm.
157	Frank D. Hardy	Lieutenant.....	Yard conductor	15 Elm.
151	Elmer R. Laing	Clerk	Produce dealer	34 Brown ave.
152	Edgar A. Young	Driver	Teamster	23 Elm.
153	James H. McKenzie.....	Hoseman	Box-maker	Elm.
154	William P. Hall	"	Sash-maker	39 Elm.
155	Henry O. Follansbee.....	"	Gas-maker	21 Elm.
156	Celon D. Stevens.....	"	Clerk	21 Elm.
149	Fred S. Morrill*	Driver	Teamster	53 Beanport.

*Detailed for department spare driver.

HOOK AND LADDER COMPANY. No. 1.

House, 18 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
111	Roscoe Dyer.....	Captain	Machinist.....	40 Market.
92	Oscar P. Stone.....	Lieutenant.....	Clerk	312 Manchester.
93	Fred W. Bond	Clerk	Loom-fixer	46 Stark.
94	Asa W. Gage.....	Driver	Teamster	18 Vine.
104	Harrison H. Cole	"	"	883 Union.
109	George M. Jones.....	"	Gardener	23 Maple.
107	Henry Heap.....	"	Manufacturer.....	18 Vine.
113	Charles H. Laxon	"	Carpenter	16 M. S. B.
112	Henry Johnson	"	Steam-fitter.....	316 Walnut.
90	Frank A. Pherson	"	Machinist	18 Vine.
106	Benjamin F. Marsh	"	Carpenter	222 Laurel.
100	John Short.....	"	Clerk	1037 Elm.
96	Frank H. Cole	"	Machinist	45 M. S. B.
118	Hiram Wingate	"	Engineer	33 Spring.
91	George H. Hammond	"	Carpenter.....	476 Maple.

REPORT
OF THE
BOARD OF HEALTH.

REPORT OF THE BOARD OF HEALTH.

To His Honor the Mayor:

The Board of Health submits the following report for the year 1902:

Dr. William M. Parsons was reappointed to succeed himself, thus no change was made in the membership of the Board, and at the annual meeting the officers of the previous year were elected, namely: John C. Bickford, president, and Wm. K. Robbins, clerk.

TABLE OF EXPENDITURES.

Salaries	\$600.00
Labor	3,017.77
Office furniture	12.87
Printing, Postage and Stationery	184.40
Telephone service	48.55
Express	10.15
Antitoxin	363.02
Disinfectants	103.45
Diphtheria Examinations	99.50
Quarantined families	329.06
Carriage hire and car fares	120.81
Instruments and supplies for laboratory	131.26
Gas	17.41
Incidentals	39.70
Fuel for Isolation Hospital	108.50
Board and nursing at Isolation Hospital	99.57
Supplies for Isolation Hospital	122.73
Salary of Matron at Isolation Hospital	64.00
Fuel for pesthouse	27.75
Board of patients at pesthouse	132.50
Salary of matron at pesthouse	360.00
Water supply and lighting for hospitals	72.63
Milk samples	30.29
Medical attendance of small-pox	991.00
Labor and watching for small-pox	297.00
Vaccination	21.00
	<hr/>
	\$7,404.82
Charged to Health Department and not included above	85.43
	<hr/>
	\$7,490.25

Inspection of the above figures will show that the regular expenditures have been less than for several previous years.

The item of labor is higher, but most of the expense of milk inspection is in labor which is charged to this account, whereas a separate item was made of it last year. The other decided increase is in the expense for diphtheretic examinations and for antitoxin, made necessary by the unusual prevalence of diphtheria during the latter part of the year. There is a decided decrease in the items of disinfectants and aid to quarantined families.

This showing we consider very favorable as the milk inspection has been done in addition to the other work. In other words, by careful economy, this work has been included without addition to the regular expense, and the fees for milk licenses turned into the city treasury during the year have amounted to \$463.00.

The city being free from small-pox at the beginning of the year no special appropriation was asked for, or made, for this disease, other than the \$900 physician's bill which was left over from last year.

The disease, however, appeared in August and the twenty-eight cases have cost the city \$1,632.17, for which no provision was made.

Of this \$600 is for physician's bill which remained unpaid at the close of the year.

It was on account of these expenses that the appropriation was overdrawn.

MEETINGS.

The regular weekly meetings have been continued on Tuesday evenings. Forty-six such meetings were held and six special meetings for trips of inspection, and such other business as required immediate attention. As will be seen by comparing this with previous reports, these special meetings continue to become fewer and fewer as the people become accustomed to depend upon the regular meetings for the transaction of such business as they may have with the Board.

Another thing which decreases the necessity for special meetings is the thorough systematization of the business at the office, which being open during the regular business hours of other city offices, enables many questions to be settled there without the necessity of a meeting of the Board.

INSPECTORS.

The same inspectors have been employed as last year, namely: Carl O. Seaman, inspector of plumbing and milk, and John F. Looney and William B. Blake, health inspectors and collectors of milk samples. Miss M. Alma Fracker has continued as clerk in the office. All have been faithful and prompt, and have continued to manifest that interest and enterprise which

are the prime requisites of good work, and they are entitled to much credit for the efficiency of the work of the department.

BACTERIOLOGICAL LABORATORY.

This department has done much more work than was expected of it after the establishment of the State Laboratory at Concord.

This happens for several reasons, first that many of the local physicians prefer the work at this office to that of the State Laboratory, and second because cases discovered in the evening or on Sundays can be decided here from twelve to thirty-six hours sooner than by sending to Concord, and third because there occurred during the latter part of the year a much larger number of cases of diphtheria than usual, as will be seen in table No. 2.

As usual the cultures are inoculated and incubated at the office and Dr. A. G. Straw does the microscopic work.

During the year 116 diphtheria examinations were made, of which fifty-four were positive, or true diphtheria, and sixty-two were negative; twenty-eight of the negative were examinations for the discharge of convalescent patients.

It is a source of regret that so many physicians do not avail themselves of this very important source of information.

It costs nothing to them or to the patients, except the pains of taking the cultures, and the information thus gained, while not to be taken as always conclusive in itself, is so valuable that no physician who is up to date can afford to go without it.

INSPECTION OF MILK.

The milk is sampled and collected by the health inspectors, sealed and placed upon ice, and these samples are tested by the milk inspector. The fat is determined by the Babcock test and the total solids estimated from the per cent of fat and the specific gravity, unless otherwise stated.

The tests for color, preservatives, etc., are the usual chemical methods. Where preservatives or other adulterations are found, a sealed portion of the sample is sent to the State Laboratory for confirmatory examination.

During the year, an analytical balance and some necessary chemicals were added to the equipment of the milk laboratory, including most of the needful apparatus for bacteriological examination of milk which we hope to do the coming season.

During the year 1,111 samples of milk, skim milk and cream were tested. One hundred and thirty-seven of these were brought to the office by citizens and milk dealers, and the remaining 947 were taken by the inspectors and paid for at retail rates. In twenty-four cases sealed duplicate samples were demanded and given, and receipts taken therefor.

A complete record of all tests and other information pertaining to them is kept in a large book specially ruled and constructed for this.

office, on a system devised by Mr. Robbins of the Board and Milk Inspector Seaman.

Each and every milkman has a separate page whereon his record can be seen at a glance, and as the pages are removable, new ones may be added, and thus the alphabetical order is maintained. This arrangement with a card index of license numbers, enables any dealers record to be found in a moment. During the winter session of higher legal requirements, namely: October, November, January, February and March, 283 samples of milk taken, averaged 4 per cent of butter fat, with specific gravity of 1.03119, and 22 were below the legal standard of butter fat.

During the summer season of April, May, June, July, August and September, 753 samples taken, averaged 3.878 per cent of fat, with specific gravity of 1.0308 per cent, and 12 samples were below the legal standard for butter fat. Of the entire 1,111 samples, 34 were below the legal standard.

Twelve samples of skim milk were taken, and of 22 samples of cream tested, the fat varied between 17.5 per cent and 47.5 per cent, with an average of 32.11 per cent.

Drying and weighing was resorted to twenty times as a check on the total solids as found by estimation from fat and specific gravity. In several cases the fat from cream was tested for volatile fat acids and specific gravity of fat, to make sure that it was real butter fat. The milk has also been tested for acidity, the Mann volumetric method of analysis being used. This was done to ascertain the condition of the milk being delivered to the public, and also to detect preservatives, as a high percentage of acidity without any sour taste or smell, would indicate that boric acid or some similar preservative was used, while a low percentage of acidity would indicate that sodium was present. Four hundred and forty-three samples of milk which were tested for acidity, showed an average of .168 per cent.

Almost every sample was tested for formaldehyde and many additional tests were made for boric acid, salicylic acid, carbonates, coloring matters and colostrum cells.

Formaldehyde was suspected in five samples and proven in two cases, which were convicted in court of using preservatives.

In two cases frozen milk was found to be below standard and one sample was partly churned to butter fat.

Two milkmen were found selling without a license and one license was revoked for cause.

Twenty-two milk wagons were found to be incorrectly marked, and eleven without name or number of the dealer.

Some difficulty is experienced in getting all dealers to properly mark cans containing skim milk. Several milk dealers were discovered collecting swill in a small way and transporting it in milk wagons.

Sixty-two official letters have been written to dealers.

On the whole a great majority of them manifest a disposition of hearty co-operation with the Board, and many dealers, and also raisers, come to

the office for consultation in regard to mixing, handling, and general care of the milk.

While no inspection can be certain to prevent all adulteration, we feel warranted in the statement that the richness and general cleanliness of the city milk supply has materially improved during the last year.

PLUMBING INSPECTION.

The enforcement of the plumbing regulations causes less and less friction as plumbers and householders gain by experience a better understanding of their aims and objects. As was mentioned in our last annual report, the privy vault nuisance is almost entirely confined to the premises not provided with public sewers which people can be compelled to enter, and we again call to mind the still more urgent need that the City Councils provide such sewers.

THE WATER SUPPLY.

The waters of Lake Massabesic have been jealously guarded as usual, and the protection thus afforded is fair but not complete, the reason being that the authorities of the town of Auburn give only a perfunctory co-operation with this board.

This is particularly apparent in the matter of preventing bathing and defiling the ice.

BURIAL PERMITS.

Very little difficulty has been experienced in regard to the burial of the dead. The undertakers are now practically all licensed by the State Board of Health, and are painstaking about their business. They sometimes have difficulty in obtaining the full information required by law, as well as the physician's signature to the cause of death. Experience has shown that the letter of the law, in regard to obtaining permits before burial, can be much more easily complied with than was supposed to be possible when this Board first took charge of the work, and insisted upon a strict compliance with the law.

The physicians are more thoughtful than formerly in signing death returns, and the undertakers are usually very punctual about obtaining permits. The death returns are promptly countersigned and filed with the City Clerk, so that the history of all persons deceased is readily available, and proves very convenient in the payment of insurance policies and the settlement of estates.

GARBAGE AND REFUSE.

The disposal of the garbage and refuse of the city has given the Board very little concern during the year. The method in vogue is not an ideal

one, and is very expensive owing to the long distance to which it is necessary to transport it, but the work is so well handled by the Street and Park Commissioners, that the danger of the dumping system is quite small, and complaints about the dumps are very few.

In the way of flushing cesspools and facilitating sewer accommodations to parties in need thereof, the Commissioners have rendered this department valuable assistance, which we gratefully acknowledge.

ISOLATION HOSPITAL.

The Isolation Hospital which was in process of erection at the time of writing our last report has been completed. It was ready for occupancy about the first of September, and has been in use a greater portion of the time since; in fact the use of the scarlet fever ward was required before it was in complete readiness, the first patient being taken there on September 6th. Since that time several others suffering from the disease have been cared for therein.

The diphtheria ward has been almost constantly in use, either by patients for whom the Board has cared, or by those who were afflicted with that malignant disorder and preferred the safe, suitable and sunny accommodations of the hospital, to the inconveniences and danger of contagion to others, in their homes.

The appropriation for building and furnishing the hospital was \$7,000, and the amount expended was \$7,265.39. Of this sum, \$471.84 was expended in building a roadway around the buildings and grading the grounds: \$44 was expended for screens for the windows: \$98 for carrying the water from the Mammoth Road into the cellars, and \$415.46 was expended in the erection of a shed and an addition to the administration building, which was found to be an absolute necessity after a few weeks experience. The roadway and grading was expensive, as at least a hundred feet of the former was through a ledge in some places four feet deep, while in other places it required a fill of from one to six feet. In giving the cost no account is made of services rendered by Superintendent Libbey of the City Farm, who furnished teams and help which, if hired, would have cost nearly, if not quite, \$100. The Board feels that the city is to be congratulated upon the possession of a hospital for the care of patients afflicted with diphtheria or scarlet fever, who heretofore could find no place other than such as their homes or boarding places afforded, and a place which is better than most homes for that purpose. We believe it is the first of its kind to be established in the state, and its usefulness will be better appreciated as the people become better acquainted with its conveniences, situated as it is upon high ground with an abundance of pure air, and so situated that when the sun shines, its rays enliven the ward rooms during the entire day.

The Board was fortunate in securing the services of Mrs. Eva M. Nute, as matron, who, though without previous hospital experience, has proved most capable and efficient for the place.

We believe that no money has ever been better expended by the city in the interests of humanity than in the establishment of this hospital. The institution furnished a new account in our expenses, and in so far as is practicable this is kept separate, and for the fraction of a year that it has been in operation, has cost \$390.80 as per detailed statement.

SMALLPOX.

For thirteen months the city was free from known cases of smallpox. The first cases to appear in August and September were easily proven to have been brought in from Canada and other towns in the state. Later cases could not be traced outside the city and must have resulted from unreported, if not unknown cases, and they increased as the cold weather came on, occurring, as will be seen in table No. 1, August 1, September 2, October 3, November 4, and December 18, making twenty-eight cases in all.

All were of the prevailing mild type except one, which was hemorrhagic and decidedly severe. Fortunately no deaths have resulted.

There is no doubt that much of the spread of the disease is due to exposure from willfully concealed cases.

DIPHTHERIA.

In April of this year ten cases of diphtheria, and one death occurred at the Industrial School. Several cases of sore throats occurred among the inmates before the disease was recognized as diphtheria, and, from the number of exposures, a serious epidemic was feared.

Prompt measures were taken to prevent this by removing all patients to the hospital, taking cultures from all suspicious throats, and establishing a strict quarantine. In this way the disease was stamped out in about six weeks time.

Diphtheria began to be more than usually prevalent early in October, and at the same time became decidedly virulent.

In many cases the disease was not recognized until the patient was in the croupous stages, and beyond reach of remedies.

The weather conditions which prevailed at this time were very similar to those which occurred during the autumn of 1897, when we had our hardest previous fight with the disease, namely a very large proportion of mild, damp weather with very little sunshine.

Then, as in the present instance, the prevalence of the disease increased until after the earth was well covered with snow, when there was a noticeable decrease in the number of cases, only persons who had been previously exposed, having the disease.

Realizing from past experience, what might be expected, extraordinary precautions were taken to avoid an epidemic. Many of the earlier cases occurred in families where the expensive antitoxin treatment would have been a hardship, and this Board furnished antitoxin free to such people. In this way we are convinced that twenty or more children were saved who must otherwise have died. As will be seen by our financial state-

ment elsewhere, a large sum of money was expended for this remedy, but we feel that the expense was justified on the ground of common humanity, and also because of the protection which it afforded the public.

The record of deaths in relation to the number of cases, is far from satisfactory, but it must be remembered that many of these croupous cases were beyond the reach of any treatment before a physician was called, and also that several cases absolutely hopeless under the old style of treatment, made quick recovery with antitoxin, and that almost no death occurred where the disease was early recognized and as promptly treated.

The earlier cases were all traceable to the school connected with the Notre Dame Hospital, and this school was carefully inspected and the schoolroom found to be scrupulously clean and neat, and the sanitary conditions good. This led us to believe that the school itself was not a source of infection, but that the children by coming into contact at school, transmitted the disease to each other. In order to prevent this, we advised that the school be closed for two weeks, and the already clean rooms were re-cleaned and fumigated. After this no more cases were traceable to the school.

It is but justice to say here that the authorities in charge of the school were ready and anxious to act upon any suggestion, and the hearty co-operation which they gave this Board was most gratifying to its members, who here record their appreciation and thanks.

STATISTICAL TABLES.

Table No. 1 gives the number of cases of contagious diseases reported and the deaths resulting from them during the year.

The total of 1026 cases and 44 deaths is large compared with former years, but in this, as in former years, the comparatively harmless measles numbers 764 cases and five deaths, leaving 261 cases and 41 deaths for all others.

Of these cases, diphtheria furnished 135 cases and 22 deaths, the largest number since 1897.

Scarlet fever during the year was less prevalent and less virulent than usual.

Table No 1.

MONTHS.	Membranous croup.		Diphtheria.		Typhoid fever.		Measles.		Scarlet fever.		Varioloid.		Smallpox.		Totals.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January	1		4		4	1	15								24	1
February	1		1			1	11		2						15	4
March			2	1			1		1						4	1
April	1	1	9	2	4	1	4		2						20	4
May			6		1		4		3						14	
June			5	2			13								18	2
July			3		5	1	51		1						63	1
August	1	1	4		9		39	1					1		54	2
September	2	1	2		7	1	66		2				2		81	2
October	3	1	42	8	6	1	141	3	1				3		196	13
November	2	1	28	6	6	2	242	1	4				4		286	10
December	5	4	29	3	7		175		17	2			18		257	9
Totals	16	9	135	22	49	8	765	5	33	2			28		1,026	46

Table No. 2 gives the total cases and deaths for the last eighteen years.

Table No. 2.

COMPARISON OF STATISTICS OF CONTAGIOUS AND INFECTIOUS DISEASES FOR THE PAST 18 YEARS.

YEARS.	Membranous croup.		Diphtheria.		Typhoid fever.		Measles.		Scarlet fever.		Varioloid.		Small-pox.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1885.....	*	*	*	18	*	20	*	5	*	36	*				*	79
1886.....	*	*	*	9	*	12	*		*	5	*				*	26
1887.....	*	*	73	17	28	18	94	4	*	9					*	48
1888.....	*	*	126	30	35	12	44	1	187	9					392	52
1889.....	*	*	79	23	36	16	259	5	54	4					428	48
1890.....	*	*	41	9	36	17	63	3	298	6					438	35
1891.....	*	*	21	2	76	18	25		89	2					211	22
1892.....	*	*	26	5	33	11	44	2	451	11					554	29
1893.....	*	*	7	1	79	15	110	5	212	2					408	23
1894.....	12	12	42	11	74	21	67	3	223	8					418	55
1895.....	17	11	47	11	73	21	55	4	68	1					260	48
1896.....	17	14	103	28	81	20	500	3	61	1	1				763	66
1897.....	14	10	148	29	78	11	387	3	54	1					681	54
1898.....	10	4	81	17	145	14	88	3	200	9					524	47
1899.....	6	3	50	6	78	12	762	5	130	3					1,026	29
1900.....	8	5	38	8	65	11	827	1	102	6	10		52		1,102	32
1901.....	3	3	18	3	55	11	15		48	9	16		178		333	25
1902.....	16	9	135	22	49	8	765	5	33	2			28		1,026	46

Table No. 3 gives detail of the causes of death during the year as assigned by the death returns. Some very instructive lessons may be learned from this table.

Table No. 3—DEATH RETURNS.

TABLE SHOWING THE MORTALITY OF THE CITY BY DISEASES AND BY MONTHS FOR THE YEAR 1902.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Abscess, abdominal.....					1							1	1
“ of brain.....					1			2				1	4
“ Mastoid.....			1					1					2
“ pharyngeal.....											1		1
“ pulmonary.....											1		1
“ of spleen.....												1	1
Accident, burned.....			2			1					1	1	5
“ drowned.....		1		1		2							4
“ fall.....					1		1				1		3
“ poisoning.....							1						1
“ railroad.....								1		1			2
“ shooting.....							1		1				2
Adynamia.....		1											1
Alcoholism, chronic.....											1		1
Althrepsia.....							2						2
Anaemia.....	1		2		1		2	2					11
Aneurism, aortic.....							1						1
Angina pectoris.....		2		2				1					5
Aortic regurgitation.....						3	3	1		4	3	3	17
Apoplexy.....	3		2										5
Appendicitis.....			2						1				1
Arthritis, rheumatic.....									1				1
Asphyxia.....		1	1						1		1	1	5
Asthenia.....										1			1
Asthma.....					1	2				1			4
Ataxia, locomotor.....	1												1
Atheroma.....				1									1
Atrophy.....					1		1						2
Brain, concussion of.....										1			1
“ congestion of.....					1			1		1	1		4
“ inflammation of.....								1					1
“ softening of.....			1						1			1	3
“ tumor of.....							1						1
Bronchitis.....	2	5	1	3	7	6	3			3	6	4	40
“ capillary.....	2		3	2	2	1	1	3	1				15
Cancer.....		1	1	1					1		1		5
“ hepatic.....							1			1			2
“ of intestines.....							1						1
“ liver.....					1	1	1						3
“ omentum.....	1												1
“ prostate.....												1	1
“ rectum.....												1	1
“ stomach.....	1			1		1			2				6
“ uterus.....	1			2	2	1	1		1				8
Catarrh, gastric.....				1				1					2
Cholera infantum.....				2	1	2	29	30	18	14	2		98
“ morbus.....							1		1		1		3
Colitis, entero.....					1			1	1				3
“ ileo.....		1						3	1				5
Convulsions.....	2	1	2	5	6	3	1	2		3	2	2	29
“ puerperal.....						1							1
Croup, membranous.....				1				1	1	1	1	4	9
“ spasmodic.....		1		1								1	3
Cyanosis.....			1							1			2
Cystitis.....	1			1	2	1	2				1	1	9
Debility, general.....			1					1	2	2		2	8
“ infantile.....				4	4	2	3	4	1	4	3	3	28
“ senile.....				2	1		2	2		3	1		8
Dentition.....			1					2	2				4
Diabetes.....		1	1			1							3

Table No. 3.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Diarrhoea						1							1
Diphtheria			1	2		2				8	6	3	22
Dropsy						1							1
Drowned													1
Dysentery								2	3	2	2		9
Eclampsia			1				1						2
Embolism Cerebral		1				1		1					3
“ Pulmonary					1		1						2
Encephalitis		1											1
Endocarditis	2	1							1		1	1	6
Enlargement of Prostate Gland													1
Enteritis		1	1		1	1		1	1		1		7
“ Gastro		1					5			2	2	1	11
Epilepsy			1			1							2
Epithelioma of Inferior Lip									1				1
Erysipelas	1				1								2
Fever, Cerebro-Spinal									1				1
“ Scarlet												2	2
“ Typhoid	1	1		1			1		1	1	2		8
Gangrene, Senile		1							1				2
Gastritis							1			1	2		4
Heart, Atheroma of								1					1
“ Dilatation of	1	1	1										3
“ Disease of		3	2		1	2	2	2	1	2	5	1	21
“ Fatty Degeneration of				2									2
“ Fatty Infiltration of											1		1
“ Hypertrophy of			1										1
“ Mitral insufficiency of			1									1	2
“ Neuralgia of					1								1
“ Paralysis of	1							2			1	1	5
“ Regurgitation of	1												2
“ Valvular Disease of	2		1	1		1	1	4		2	2	1	15
Hemiplegia	1												1
Hemorrhage, Abdominal				1									1
“ Cerebral	3		2	2				1	1	1	1	1	12
“ Postpartum	1												1
“ Pulmonary							3		1				4
Hydrocephalus						1		2					3
Indigestion, Acute						1							1
Intestinal Obstruction						1					1	1	3
Intersusception						1							1
Jaundice					2						1		3
La Grippe		1											1
Laryngitis		1								1			3
Liver, Atrophy of	1											1	1
“ Cirrhosis of				1	1		1	1	1	2			7
Lungs, Congestion of		1	1	2	2	1	1	1		2	3		14
Malaria and Diarrhoea			1										1
Malformation of Intestines		1											1
Mania, Acute			1										1
Marasmus	1	4	3	2	2	1	5	4	7	7	5	4	46
Measles								1		3	1		5
Melaenia Neonatorum					1								1
Meningitis	2	6	4	1			6			2	7	2	31
“ Cerebral	2		2	1	2	1	1	4	1			1	15
“ Cerebro Spinal							1				1		3
“ Tubercular	2		1					1	1		1	1	7
Myelitis	2	1											3
Nephritis	3	2	1	2	1	1	2		1		1	2	16
“ Interstitial				1	1		1			2		1	6
Old Age	1	2		2			1	2	1	1			10
Paralysis	3		1	2	2	1	3	2	1	3	2	1	21
Paresis	2			1								1	4
Paraplegia			1										1
Peritonitis	1	2		3	2		1	3	1	1	1	3	18

TABLE No. 3.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Pertussis	2	1				1		1				1	6
Phlegmon of neck	1												1
Phthisis pulmonalis	5	8	7	7	3	2	6	5	6	1	1	9	60
Pleurisy		1	2		1		1						5
Pneumonia	9	9	10	10	7	4	2	2	4	9	15	19	100
" Broncho		1	2	1	1	1	1	1		1	1	2	14
" Catarrhal		1			1								2
" Pleuro	1								2				3
" Typhoid											1		1
Poisoning by illuminating gas.											1		1
" Potomaine							1						1
Pott's disease				1									1
Premature birth	2	4	7		3	1	4	2		1	3	2	29
Pseudencephalus							2	1					1
Pyæmia													2
Rheumatism					1	1				1			3
Sarcoma of jaw												1	1
Sclerosis, arterio		1					1		1		1		4
" spinal							1						1
Septicæmia				2		1			1	1			5
" puerperal										1			1
Shock from parturition				1									1
Skull, fracture of					2	1		1					4
Spina bifida								1					1
Stenosis, aortic											1		1
" mitral	1		1										2
Stillborn	12	9	12	5	11	2	7	8	7	7	4	7	91
Stomach, ulceration of			1		1								2
Suicide, by cutting throat										1			1
" by hanging			1										1
" by shooting	1											1	2
Tabes, mesenterica			1										1
Thrombi	1												1
Tonsilitis		1					1						1
Tuberculosis		1	3	1	2	2	2	2		1	2	2	18
Tumor, fibroid		1											1
" ovarian											1		1
Unknown	1	2					4		1	1	2	1	12
Uremia	1					1	1			3	2		8
Volvulus									1				1
Totals	88	86	97	86	92	67	127	119	88	113	113	107	1,183

Thus tuberculosis or the various forms of consumption, caused 78 deaths, bronchitis 55, and pneumonia and congestion of the lungs 133, the total deaths from diseases of the respiratory organs being 270. Thus the dreaded consumption is almost equaled by bronchitis, and far surpassed by pneumonia.

Cholera infantum and other diseases of the digestive system, claim 243 deaths. The two classes caused 513 deaths, or more than one half of the total for the year.

These diseases are all very largely preventable by hygienic living and care, and it is such care as only the individual or family can exercise, and which neither physicians nor health boards can materially effect in any direct way. Many other similar lessons may be drawn from this table.

Table No. 4 gives comparisons of the total deaths from the various causes for the past eighteen years, and affords valuable comparisons.

Table

SOME COMPARISONS OF VITAL STATISTICS

	116.	1886-	1887.	1888.	1889.	1890.	1891.
Population, estimated	37,884	39,032	40,215	41,433	42,689	44,126	45,500
Number of deaths, exclusive of stillbirths	733	725	798	853	764	901	880
Deaths, per thousand of population	19.35	18.57	19.84	20.59	17.90	20.40	19.34
Deaths of children under five years	312	313	356	397	353	434	396
Ratio, deaths of children to total deaths, per cent	42.56	43.17	44.61	46.54	46.20	48.17	44.66
Deaths of children per thousand of population	8.24	8.02	8.85	9.58	8.27	9.87	8.64
Deaths from zymotic diseases	231	205	256	227	199	252	181
Deaths from zymotic diseases per thousand of population	6.10	5.25	6.37	5.48	4.66	5.72	3.98
Cholera infantum	89	115	148	115	86	141	122
Consumption	93	109	93	109	79	94	84
Croup	12	21	25	24	25	15	7
Diphtheria	18	9	17	30	23	9	2
Bronchitis	29	11	29	37	35	38	38
Pneumonia, all forms	42	26	39	45	38	58	72
Heart disease, all forms	40	37	45	23	47	43	38
Scarlet fever	5	.....	4	1	5	3	.....
Typhoid fever	20	12	17	12	16	17	18
Measles	36	5	8	9	4	6	2
Whooping cough	11	3	1	5	6	4	5
Smallpox	3	.....	.....	.....	.....	.....	.....
Births reported	1,106	1,207	1,391	*830	*872	*965	*985
Births per thousand of population	29.19	30.92	34.59	.....	.....	.....	.....
Marriages reported	404	451	473	439	506	463	549

* *The returns are manifestly incomplete,

No. 4.

FOR THE LAST EIGHTEEN YEARS.

1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.
48,000	50,000	55,000	55,000	56,000	60,000	60,000	60,000	56,987	56,987	56,987
963	971	977	1,020	1,051	1,018	1,001	1,068	1,167	1,131	1,092
20.06	19.42	17.76	18.54	18.77	16.97	16.68	17.80	20.47	19.84	19.12
500	527	546	549	531	631	5.21	541	561	554	622
51.92	50.62	55.89	53.82	50.52	61.98	52.04	50.65	48.07	48.99	56.95
10.42 153	10.54 137	9.91 209	9.98 213	9.48 227	10.50 226	8.68 254	9.01 203	9.84 244	9.71 283	10.91 238
3.18 103	2.74 89	3.80 40	3.97 146	4.05 129	3.77 110	4.23 122	3.38 78	4.28 119	4.96 121	4.17 98
89	79	74	76	112	88	73	91	100	81	78
3	4	24	14	20	14	10	10	6	5	12
5	1	11	10	28	29	17	6	8	3	22
39	44	56	59	51	86	45	65	40	38	55
39	53	81	86	77	105	72	113	118	105	120
48	46	52	75	77	64	50	57	77	75	54
2	5	3	4	1	1	9	3	6	9	2
11	15	8	21	19	12	14	12	12	11	8
11	2	4	1	3	3	3	5	1	.....	.....
.....	2	.....	2	3	13	2	15	3	8	5
1,178	1,491	1,247	1,440	1,714	1,614	1,500	1,489	.....	.....	.....
637	650	616	599	652	634	565	583	.....	.....	.....

In closing, we wish to express our sincere thanks to the Mayor and both branches of the city government, for the confidence they have manifested in us, and the many ways in which they have given assistance and encouragement to the health department.

Respectfully submitted.

JOHN C. BICKFORD.

WILLIAM K. ROBBINS.

WILLIAM M. PARSONS.

INSPECTORS' REPORT.

Gentlemen of the Board of Health :

We beg leave to submit the following as the report of the sanitary inspectors for the year 1901:

Vaults and privies inspected	162
Vaults inspected after cleaning	128
Water-closets inspected	1,254
Urinals inspected.	31
Yards and alleys inspected	1,777
Cellars inspected.	1,280
Barns and outbuildings inspected].	294.
Tenements inspected.	636
Barn cellars inspected	190
Teams and riggings of excavators inspected	15
Soaperies, slaughter-houses, etc., inspected	12

Cleaning or repairs were ordered as follows:

Vaults and privies cleaned	33
Yards and alleys cleaned	324
Cellars cleaned	304
Barn cellars cleaned	30
Sheds, etc., cleaned	21
Tenements cleaned	58
Water-closets, cleaned or repaired	634
Leaky drainpipes repaired	73

Houses within a 100 feet of public sewer and not connected therewith, 30.

Openings other than leaks in the drainage system were found in 42 places, and same were closed by order of the department. Six hundred and forty sinks have been examined, 41 have been ordered trapped, and 31 repaired.

Bathtubs inspected, 99. Washtrays inspected, 11.

Sewage was found running on surface of the ground in 19 places, and such nuisances were abated either by entering the sewer or carrying away in some manner not offensive.

In doing the work of the department it has been necessary to make 3,492 calls, and to write 56 letters.

Five hundred and eleven complaints have been investigated. In 457 cases the inspectors have been able to give relief, and in 54 cases it was found that no cause existed, or that same was beyond the control of the department.

Fifty-six dead animals have been properly disposed of.

One hundred and nineteen hens and small animals have been removed from cellars.

Nineteen swine and cows have been discovered being kept within the sanitary limits of the city, without licenses. Same were ordered removed or licenses procured.

Twenty-five complaints were made against the scavenger service; in each case the proper parties were notified and relief afforded.

Eighteen persons were discovered throwing garbage in the back streets and lake, and were warned against the practice.

Private swill collectors have been warned 21 times to be neater in their work.

One hundred and ninety catch-basins or street cesspools have been inspected, and 28 have been flushed or repaired by order of this department.

Twenty-three notices have been prepared and served, and proper returns made.

A sanitary inspection has been made of 25 bakeshops.

Sixty-three stores have been inspected.

Theatres were inspected 5 times.

The dumps have been inspected 27 times. Sausage factories inspected 15 times.

One hundred and thirty nuisances not otherwise classified have been abated through the efforts of this department.

Householders have been given six permits to clean their own vaults.

Permits to the number of 1,585 have been granted for the burial or removal of dead bodies, and the returns forwarded to the city registrar.

A statement of mortality has been prepared each month, and copies sent to over two hundred other towns and cities, to local physicians, etc.

Contagious and infectious diseases have been reported as follows: Measles 765, diphtheria 135, typhoid fever 49, scarlet fever 33, membranous croup 16, smallpox, 28, total 1026. Eight hundred and ninety-two of these cases were reported by physicians, 80 by householders, and 54 were discovered by the inspectors. The inspectors were unable to trace the cause in 335 cases; in 676 the connection with some previous case was clearly traceable. Seventeen cases were contracted outside of the city; and in 8 cases it was reasonable to attribute the cause to unsanitary surroundings.

In some cases disinfectants were being used. The inspectors ordered their use in other cases. At most of these places instructions were given as to their use, and in many cases the department furnished the disinfectants.

In some cases patients were found well isolated, and in the other cases inspectors were obliged to order isolation. In nearly all of these cases it was necessary for the inspectors to give instructions as to the steps to be taken.

Houses were watched to see that the rules of isolation were complied with, and 24 funerals were attended to prevent a too public observance of the same.

Eight hundred and sixty-four rooms where disease had existed were fumigated by the inspectors.

Eighty-three children who were attending school, and seventy-seven people who were working and living in houses where contagious disease existed, were either restrained from attending school and employment, or instructed as to thorough isolation from the disease until all danger from contagion had passed.

Forty-five cases have been cared for at the contagious disease hospitals.

About 3,000 pamphlets issued by the State Board of Health have been distributed in the localities where contagious diseases existed.

Weekly reports of contagious and infectious diseases have been sent to the State Board of Health, Concord, and the United States Marine Hospital Service, Washington, D. C.

The inspectors have each in turn patrolled the shores of Lake Massabesic, Sundays, holidays, and parts of every other day from June 1 to October 1.

Ice fields from which ice was being cut were inspected.

Horse races were attended to prevent the pollution of the water and ice at the lake.

Steamboats have been inspected many times.

Persons were warned as to the disposal of sink water.

Several picnics and band concerts were attended, to prevent the careless disposal of waste and rubbish in the lake or on its shores.

Banana skins, tin cans, paper, and rubbish of all sorts, have been removed whenever found.

PLUMBING INSPECTOR'S REPORT.

Plumbing fixtures set:

Number of tank water-closets	702
frost-proof water-closets, Kelley & McCulloch . .	8
sinks	423
bathtubs	287
wasbOWls	302
Number of wash trays	131
urinals	19
refrigerators	14
slophoppers	5
cellar drains	4
other fixtures not classified above	41
Total number of fixtures put in	1,936

Number of plumbing notices filed	411
water tests of soil pipe made	332
stacks of soil pipe made	381
smoke tests of soil pipe	11
defects and leaks found	84
complaints investigated	32
fixtures and pipes found unserviceable and repaired	19
consultations with owners, tenants, agents, plumb-	
ers, etc	188

A total of 2,004 inspections were made of the work during its progress and after its completion.

JOHN F. LOONEY.
CARL O. SEAMAN.
WILLIAM B. BLAKE.

REPORT

OF THE

TRUSTEES OF THE CITY LIBRARY.

REPORT OF THE THE TRUSTEES OF THE CITY LIBRARY.

To the City Councils of the City of Manchester:

The trustees of the City Library herewith respectfully present their forty-ninth annual report of the affairs of the library and, accompanying the same, the report made to them by the treasurer of the board, containing the statement of the sums received and the expenditures made by him in behalf of the board from the funds under the control of the trustees.

The treasurer reports the amount expended for the purchase of books during the past year to have been the sum of one thousand nine hundred and ninety-one dollars and seventy-eight cents and for the purchase of periodicals the sum of one hundred and ninety-five dollars and five cents, making a total expenditure for both of these purposes of two thousand one hundred and eighty-six dollars and eighty-three cents.

Of the amount expended for the purchase of books, the sum of fifty-nine dollars and seventy-eight cents was expended for the purchase of books to replace those worn out and withdrawn from circulation, and the sum of seven hundred and fifty-five dollars and nine cents was taken from the income of the Dean fund and used for the purchase of books for the increase of that department of the library. Exclusive of these two items the sum expended for the purchase of new books was one thousand one hundred and seventy-six dollars and ninety-nine cents, leaving a balance in the hands of the treasurer at the close of the year of the amount appropriated by the City Councils for the purchase of books of nine hundred and seventy-one dollars and twenty-two cents.

The balances at the close of the year of the accumulative income of the several funds under the control of the trustees were as follows:

Dean fund	\$8,244.46
Mary E. Elliot fund	1,632.57
Eliza A. Eaton fund	823.44

The incidental expenses of the library for the past year have been five thousand two hundred and forty-nine dollars and five cents. The items that go to make up the amount of these incidental expenses can be found in detail in the annual report of the city, the bills for the same having been paid by the city treasurer upon the approval by the trustees from the sum appropriated by the library.

From the report of the librarian it appears that during the year the library has been open for the delivery of books three hundred and six days, during which time the number of books delivered for home use were seventy-six thousand, seven hundred and fifteen, an average of a little over two hundred and fifty per day. In addition to the number delivered for general circulation twenty-nine thousand six hundred and sixty-seven books were delivered for use at the reading room, an average of over ninety-six per day. The total number of books delivered during the year for general circulation and use at the reading room was one hundred and six thousand three hundred and eighty-two, an average of three hundred and forty-seven and two-thirds per day. The circulation for the past year was the largest since the library was established. As compared with the previous year the circulation for home use shows an increase of four thousand four hundred and seventeen, and the number delivered for use at the reading room an increase of one thousand two hundred and sixty-three while the total circulation shows an increase of five thousand six hundred and eighty. The increase in circulation of books used at the reading room for the year 1901, over the year 1900, was nine thousand three hundred and eleven, while the past year the increase over 1901, as stated above, was one thousand two hundred and sixty-three.

The number of volumes in the library at the date of the last report, including maps and pamphlets, was forty-seven thousand two hundred and seventy-eight. During the year there have been added by purchase nine hundred and seventy-two volumes, by donation four hundred and nine volumes, and one hundred and forty-one volumes of periodicals have been bound, making the number of bound volumes forty-eight thousand and eighty-two, and the total number, including sixteen maps and seven hundred and two pamphlets, forty-eight thousand eight hundred.

The number of books withdrawn from circulation during the year on account of their worn and defaced condition was three hundred and fifteen. Of this number and of others retired from circulation in previous years for the same reason, or had been lost, seventy-three have been replaced during the year at a cost, as previously stated, of fifty-nine dollars and seventy-eight cents. A large number of the books purchased in the first few years after the destruction of the library by fire in 1856 have become very badly worn and must soon be withdrawn from circulation. The trustees have expended during the past ten years on the average about one hundred dollars per year to replace such of the books as they were compelled to retire from circulation as defaced and worn out from constant use. Of the annual appropriation of one thousand dollars made by the City Councils for the purchase of books and periodicals, nearly two hundred dollars is expended for periodicals. If in addition the trustees expend each year one hundred dollars to replace worn out books, only the sum of seven hundred dollars would remain for the purchase of new books for the increase of the library. The trustees respectfully submit for the consideration of the City Councils the propriety of a small increase in the appropriation made for the purchase of books

and periodicals, thereby enabling the trustees to more rapidly replace those worn-out books most constantly called for by the patrons of the library.

One hundred and seventeen different periodicals have been regularly received at the library during the year, of which number sixty-seven were purchased and fifty were donated, and on the completion of the various volumes they have been bound and placed on the shelves for general circulation.

The number of books reported lost during the year, forty in number, is largely in excess of any number reported lost in any previous year. It is difficult to account for the loss of so large a number under the present system of delivering and charging books in use at the library.

Whether the new arrangement introduced by the librarian of placing books for inspection in shelves, in the reading-room, outside the delivery desk was a contributing cause to any of these losses the trustees are not now able to state.

In the last report of the trustees mention was made of the fact that the reading room at the library had been open on Sundays during the months of October, November and December of that year. In continuance of the plan then outlined, the reading room at the library has been open each Sunday during the past year, from eleven o'clock in the forenoon to five o'clock in the afternoon. The total cost, excluding lighting and heating, was two hundred and seventy-seven dollars and ninety-five cents. The attendance during the year has been only to a limited extent from those of our citizens whose employment precluded their use of the library on week days and to whom an opportunity for reading and study was intended to be given by the opening of the library on Sunday. The total attendance during the year was two thousand one hundred and twenty-three, of which number four hundred and forty-eight were men and one hundred and fifteen were women; the remaining number, fifteen hundred and fifty-nine, were classed as children, most of them being under the age of twelve years. The average attendance per Sunday was for men nearly forty-one, for women two and for children about thirty.

It will be seen from the above statistics that nearly three quarters of the total attendance was children. The attendance of so many children may account in part for the lack of attendance of adults, as the children, while not disorderly, are somewhat restless and noisy and more or less disturbing to the older people engaged in reading and study. It is possible, that if the children could have a room by themselves, the attendance of adults might show an increase, but unfortunately the library building has no room suitable to be used as a children's reading room.

Some two or three years ago the Manchester Federation of Women's Clubs offered to give to the city the sum of two hundred and fifty dollars, which sum had been obtained from a fair held by the Federation, towards the expense of fitting up a room in the basement of the library building for a children's reading-room, suggesting that the room in the basement used for public documents and newspapers might be taken for the

purpose and another place be provided for the public documents and newspapers.

The matter was taken under consideration by the committee on lands and buildings and a committee from the board of trustees, but it was found that the expense of making the necessary changes and fitting up of the two rooms was too great to warrant the undertaking without a special appropriation for the purpose from the city councils. No appropriation, however, was made.

During the past year the ladies connected with the Federation of Women's Clubs have suggested to the trustees that the money in their possession might be used in fitting up the gallery over the reading room at the library, for a children's room. The trustees, individually, expressed themselves as willing to receive and use the money for the purpose desired, provided that the City Councils would appropriate a sufficient sum to pay for the services of a competent assistant to take charge of the room and direct the reading for the children, and that the subject of such appropriation would be brought to the attention of the City Councils before the beginning of the year. At a recent meeting of the trustees the matter of this appropriation was referred to the Chairman and Clerk of the board with authority to ask for the appropriation required.

The sum of five hundred dollars was decided upon to pay for the services of an attendant and the matter now rests with the City Councils. The trustees are of the opinion that an appropriation for this purpose would materially assist in directing to right reading and thought the children who as adults will participate in the government of the city.

In October last the publication of the Library Bulletin was discontinued, the Library Bulletin Company assigning as a reason for its discontinuance that it failed to receive sufficient advertising patronage to warrant its further publication without serious financial loss to the company. The trustees regret that the Bulletin Company felt obliged to take this action because for the time it was published, a little over a year it had proved to be of considerable benefit to the patrons of the library in giving information of recent accessions of books and furnishing lists as aids for reading on special subjects, and thus tending to increase the circulation of books from the library.

The Card catalogue, work upon which has been in progress for several years, is now substantially completed, all the books and pamphlets, with the exception of the government documents, having been classified and catalogued. There now remains the work of analyzing and expanding the subordinate subjects beyond the titles of the books in order to make the catalogue more useful and convenient to patrons of the library in finding subject matter sought. It is the intention of the trustees to print during the year one or more titles from the catalogue, similar to those already issued.

Accompanying this report will be found the names of all those who have made donations to the library during the year, with the number of books or

periodicals presented by each person. Due acknowledgement has been made in behalf of the city to all who have in this way manifested their interest in the increase and prosperity of the library.

The new librarian Miss F. Mabel Winchell assumed her duties on the first of January, and has continued in the position throughout the year. Miss Winchell before coming to this city had considerable experience in library work as an assistant under Mr. C. A. Cutter, the librarian of the Forbes library at Northampton, Mass., and has during the year made conscientious efforts to add to the circulation of the library and increase its usefulness to the public.

The trustees desire to renew their acknowledgements to the members of the city councils, and particularly to the committee on lands and buildings for the courtesy and consideration with which their suggestions relating to the library have been received, and carried out.

APRIL 2, 1903.

In board of trustees read and approved, and ordered to be signed by the chairman and clerk of the board, and transmitted to the city councils.

EUGENE E. REED,
Mayor.

N. P. HUNT,
Clerk.

TREASURER'S REPORT.

To the Board of Trustees of the City Library:

The treasurer of the board submits the following account of the receipts and expenditures by the board of the funds received on account of the library:

1902.		Dr.
Jan. 1.	To balance of appropriation	\$1,159.56
Aug. 15.	appropriation for books for 1902	1,000.00
Dec. 24.	F. Mabel Winchell, balance of fines, etc.	220.66
	F. Mabel Winchell, catalogues sold . . .	8.35
	F. Mabel Winchell, books lost	14.39
		<u>\$2,402.96</u>
Jan. 1.	To balance of income of Dean fund	\$8,579.48
	income of Dean fund	90.00
July 1.	interest on accumulation of income . .	99.54
	interest on accumulation of income . .	148.17
	interest on fund	45.00
Oct. 1.	interest on fund	31.49
	interest on accumulation of income . .	5.87
		<u>\$8,999.55</u>
Jan. 1.	To Mary E. Elliot fund	\$2,000.00
	balance of interest, Mary E. Elliot	
	fund	1,627.47
Oct. 1.	interest on Mary E. Elliot fund	30.00
	interest on accumulation of income . .	25.10
		<u>\$3,682.57</u>
Jan. 1.	To Eliza A. Eaton fund	\$3,000.00
	balance of interest, Eliza A. Eaton	
	fund	766.23
Oct. 1.	interest on Eliza A. Eaton fund	45.00
	interest on accumulation of income . .	12.21
		<u>\$3,823.44</u>
		<u>\$18,908.52</u>
1902.		Cr,
Jan. 29.	Paid F. W. Honge, books	\$3.50
30.	Little, Brown & Co., books	6.00
	Lawyers' Co-operative Publishing	
	Co., books	5.00
Feb. 6.	W. B. Clarke Co., books	112.59

Mar. 7.	Paid H. W. Wilson, periodicals	3.00
	Little, Brown & Co., books	2.50
19.	Little, Brown & Co., books	3.00
24.	Houghton, Mifflin & Co., (Dean fund), books	300.00
28.	W. B. Clarke Co. (Dean fund), books	22.20
Apr. 4.	Little, Brown & Co.	2.00
14.	Essex Publishing Co.	5.00
15.	George C. Gilmore, books	12.00
16.	Little, Brown & Co., books	3.75
17.	Publishers' Weekly, books	3.65
May 10.	George E. Littlefield, books	20.00
28.	George E. Littlefield, books	13.05
June 3.	Cumulative Index Co., books	5.00
4.	W. B. Clarke Co., books	266.31
	W. B. Clarke Co., replaced books	18.22
16.	Little, Brown & Co., books	1.50
21.	W. B. Clarke Co., books	100.67
July 9.	Commonwealth of Massachusetts	29.25
14.	W. B. Clarke Co., books	69.06
Aug. 22.	Little, Brown & Co., books	3.50
	W. B. Clarke Co., replaced books	1.00
	W. B. Clarke Co., books	87.81
Sept. 9.	W. B. Clarke Co., replaced books	37.97
13.	W. B. Clarke Co., books	42.64
20.	W. B. Clarke Co. (Dean fund), books	213.23
Oct. 8.	Little, Brown & Co., books	1.50
	W. B. Clarke Co., books	9.99
	W. B. Clarke Co. (Dean fund), books	8.85
11.	W. B. Clarke Co., replaced books	1.92
Nov. 13.	George H. Polley & Co. (Dean fund) books	70.00
	F. Mabel Winchell, books	5.10
	Sampson, Murdock & Co., books	2.00
22.	W. B. Clarke Co., books	120.00
Dec. 2.	George E. Littlefield, books . . . . .	.45
15.	William H. Guild & Co., periodicals	192.05
20.	A. L. A. Publishing Board, books . . . . .	.74
22.	Little, Brown & Co., books	2.50
	W. B. Clarke Co., books	236.85
	W. B. Clarke Co., replaced books . . . . .	.67
	W. B. Clarke Co. (Dean fund), books	140.81
Dec. 31.	By balance of appropriation	\$2,186.83
	balance of Dean fund income	\$971.22
	balance of Elliot fund and interest	8,244.46
	balance of Eaton fund and interest	3,682.57
		3,823.44
		<hr/>
		\$18,908.52

REPORT OF THE TRUSTEES OF THE CITY LIBRARY. 457

The expenditures for the incidental expenses of the library for the year ending December 31, 1902, the bills for which have been paid by the city treasurer, upon approval of same by the committee on accounts of the board of trustees, the detailed items of which will be found in the annual report of city, have been as follows:

Services of librarian	\$900.00
Services of assistants to librarian.	998.65
Reclassification and cataloguing	927.40
Fuel	401.37
Gas	67.28
Electricity	471.30
Insurance	125.00
Binding	180.70
Rebinding	374.85
Supplies	374.31
Printing trustee's report	13.00
Water	16.00
Cleaning	108.84
Newspapers	6.00
Incidentals	6.40
Sunday opening of library	277.95
	<hr/>
	\$5,249.05

RECAPITULATION.

Balance December 31, 1901	\$2,652.18
Balance of appropriation for Sunday opening	174.45
	<hr/>
	\$2,826.63
Appropriation for 1902	\$6,036.00
Appropriation for Sunday opening	164.00
	<hr/>
	\$6,200.00
	<hr/>
	\$9,026.63
Paid trustees for the purchase of books	\$1,000.00
Paid incidental expenses	5,249.05
Balance of appropriation	2,717.08
Balance of appropriation for Sunday opening	60.50
	<hr/>
	\$9,026.63

Respectfully submitted,

N. P. HUNT.

Treasurer of Trustees of the City Library.

DECEMBER 31, 1902.

We have examined the foregoing report and find the same correctly cast and properly vouched.

WILLIAM C. CLARKE, *Mayor.*

WALTER M. PARKER,

Committee on Accounts of City Library.

DECEMBER 31, 1902.

I certify that I have examined the several items of receipts and expenditures embraced in the foregoing report of the treasurer of the trustees of the city library, and find the same correctly cast and properly vouched.

JAMES E. DODGE,
City Auditor.

LIBRARIAN'S REPORT.

To the Trustees of the City Library, Manchester, N. H.

GENTLEMEN:—The forty-ninth annual report of the City Library is herewith presented.

Our statistics for the year, which will be found tabulated at the end of this report and to which I refer for more explicit details, show a gratifying increase over the preceding years.

CIRCULATION, ETC.

The total circulation, 106,382, is the largest ever reached in the history of the library, and each month of the year has shown an increase over the corresponding month of the previous year, while the percentage in the amount of fiction used has dropped from 79 to 73. Not only has there been a larger proportion of non-fiction read, but much of the fiction read has been of the best.

OPEN SHELVES.

The additional open shelves recommended in the last report were granted and have been greatly appreciated as shown by the large number of borrowers who make their selections from them. On these shelves we have taken much pains to place the best of reading.

A children's table has placed good reading also before the young people. The need for this was great, as many of the boys seemed to know no other authors than Alger, Ellis, Optic, and Castlemon.

READING ROOM CIRCULATION.

The books thus made available, have been much read in the library, as well as taken out for home use. Of those used in the reading room no record could be kept. Considering this fact and also that about fifty gift magazines have been placed in the reading room and used without record, it is somewhat remarkable that the recorded circulation is larger than for the previous year.

WORN-OUT BOOKS.

Notwithstanding the number of worn out books that have been discarded during the year there are yet upon our shelves many books that need to be replaced because they are so soiled, worn, and yellow with age, they are repellant instead of attractive.

GOOD COPIES NEEDED.

We lack copies that are even fairly good of many of the works of our standard American and English authors so that when a volume is called for, the only copy we can offer is so poor that the reader often turns to an inferior work because of the better print and cleaner leaves. The library should have attractive copies of all the standard works that we may encourage, not discourage the taste for good literature. To this end I most urgently request that an increase in the appropriation for books be obtained.

CITY APPROPRIATION.

When the Manchester Athenaeum turned over its library to the city in 1854, the city agreed to appropriate not less than \$1,000 a year for the purchase of books and periodicals. During these forty-nine years the city has trebled in size while the appropriation for books has remained the same. It would seem quite evident that the growth and usefulness of the library cannot keep pace with the needs of the city without an increase in this appropriation.

A MODEL LIBRARY.

Manchester is the largest city in the state and its library should be a model to which the smaller libraries of the state could look for help and suggestion.

NEW BUILDING NEEDED.

Our greatest needs are a new building and a children's room. The necessity for a new building has long been apparent to the people of Manchester, the present edifice being quite inadequate in size, unsuitable in design, and very insufficiently lighted. It is greatly to be hoped that at no distant date the city of Manchester may be provided with a library as well adapted to its requirements as its admirable High School building is suited to the purposes of that institution.

CHILDREN'S ROOM.

The children's room we hope to see even sooner. It is thought by many that the gallery could be used for this purpose and, although it is not all that could be desired, it would be far better than nothing. It is understood that the ladies of the Women's Federation of this city stand ready to fit up this room, if the city will make an appropriation for a children's librarian. The need for a children's room with a trained assistant in charge is especially great in this city, because there are so many boys and girls here who have no helpful home influences whatever, and if they are ever to form the

reading habit it must be taught at the library or the school, and taught while they are young.

Of all our many needs we believe the children's room is most imperative

REQUEST SYSTEM.

During the year a number of changes have been made, the first being the inauguration, on January 20th, of the request system. By this system any person desiring a book which is out, may leave his name for the book and have it reserved for him on its return to the library. If more than one request be left for the same book the requests are honored in the order of receipt. This system, so far as may be judged by the many expressions of appreciation which have come to us, has proved satisfactory to a large number of our borrowers. Thirty-nine requests were left the first day, and an average of about one hundred seventy-five are on file all the time.

BIRTHDAY CELEBRATIONS.

In February we began the custom of celebrating the birthdays of noted people, and days of general interest, such as the Fourth of July, Halloween, and Thanksgiving Day. A collection of the books appropriate to the occasion was gathered and placed where accessible to the public, with such pictures as we were able to obtain. These collections seem to have been enjoyed by our readers and especially by teachers and scholars who wished material for school use. More would have been done along this line had not the time of our assistants been so fully occupied with the routine work of the library.

DATE OF RETURN GIVEN.

On March 1 we began to stamp the date of return instead of the date of issue on the books charged, believing that it would be more satisfactory to the borrower to know when a book was due than when it was taken out, thus saving all trouble of reckoning the date.

REGISTRATION CARDS.

On March 6 the large books which previously had been used for registration were superseded by cards.

LIBRARY OF CONGRESS CARDS.

On July 10 it was decided to try the catalogue cards issued by the Library of Congress. These cards have proved very satisfactory and have been a saving in time though they do not in the least do away with the need of a cataloguer. The time gained through their use may well be spent in the future in analyzing such books as require it. This analyz-

ing will greatly increase the usefulness of the books. Analytical work has been done during the past year on the new books as received. For the accessions previous to 1932 it is yet to be done and is likely to take many years unless our cataloguing force is increased, for the current work of the library requires all the time of the present corps of assistants and any time taken for back work is at the expense of our present needs.

SATURDAY TILL 9 P. M.

Under authority of the trustees the library has been kept open on Saturday evenings, since September 25, until 9 p. m. This was tried as an experiment but the number who have visited the library between the hours of eight and nine, during the last two months of the year has fully justified the change.

STUDY POCKETS.

At the same time the trustees authorized the issue of additional volumes to borrowers when such volumes were wanted for purposes of study or research. The number of additional volumes to be allowed was left to the discretion of the librarian. Books issued in this way may be kept as long as needed without renewal, but after two weeks are subject to recall if wanted by another person. During the three months of October, November, and December one hundred and eight people took advantage of this new privilege and expressed themselves as greatly pleased with the arrangement.

PICTURE EXHIBITS.

A new feature of the work this year has been the picture exhibits. We have been fortunate in obtaining a number of loan collections all of which have been loaned to us without charge.

The first of these was given in the spring and consisted of about one hundred miscellaneous pictures. These remained on view for a month or more and were enjoyed by many. The second exhibition was given in November and consisted of thirty-two unusually fine photographs of landscapes and animals taken by the Rev. Wallace Nutting of Providence, R. I. The third exhibit consisting of over two hundred choice architectural views, was given in December. The last two collections were exhibited through the courtesy of the Soule Art Company, of Boston.

The interest taken in these exhibitions of pictures leads us to express the hope that the day is not far distant when the library will have a collection of its own. Pictures and music have come to be a recognized part of the modern city library and by many libraries are considered a most important feature.

LIBRARY BULLETIN.

One change, much to be regretted, has taken place during the year. I refer to the termination of the bulletin. The Library Bulletin Co. of Boston that has published the bulletin free of charge, could not make it pay, and so felt obliged in October, to cease publication. This had served as a supplement to our printed lists and will be greatly missed by our patrons and by our library staff in their work. I would present for consideration the suggestion that we print a bulletin of our own. If a monthly should seem too expensive, a quarterly would serve our purpose very well.

RE-REGISTRATION.

At this time I would urgently recommend that during the summer of 1903 a new registration should be commenced. The present registration dates back to 1880, twenty-three years ago. This means that we have on our lists the names of many who are no longer residents of Manchester. Their cards and pockets are taking room in the drawers that is needed for active borrowers. Either we must have additional drawers (for which we seem to have no room), or we must have a weeding out. Most city libraries have a re-registration every few years, and with the changing population of Manchester it would be well to have one at least every five years, perhaps oftener.

JANITOR.

I would also recommend the appointment of a janitor to take care of the whole building. The present arrangement provides one man to care for the furnace, another to look after the outside steps and walks, while the assistants sweep and dust indoors and a woman cleans twice a week; this arrangement is both expensive and unsatisfactory.

SUNDAY OPENING.

In regard to the Sunday opening I would state that from April 20 to the end of the year a record was kept of the number who used the room between the hours of 11 A. M. and 1 P. M. as well as the total number for the day. The following figures show the results.

Record kept for 35 Sundays.

11 A. M. — 1 P. M.

Men	Women	Children	Total
165	28	145	338

Average attendance per Sunday.

4.7	2.7	4.2	9.6
-----	-----	-----	-----

Total for same Sundays.

11 A. M. — 5 P. M.

349	95	846	1290
-----	----	-----	------

Percentage of use between 11 A. M. and 1 P. M.

47	29	17	26
----	----	----	----

From this it may be seen that the total average attendance per Sunday between the hours of eleven and one is only about nine and one half persons. A small number in comparison with the afternoon when the seating capacity of the room is often taxed to its utmost. I would therefore, recommend that the hours on Sunday be changed from 11 A.M. - 5 P. M. to 1 - 5 P. M.

The number of people, 2123, who have used the library on Sunday during the year would seem without question to justify the expense of keeping it open for a few hours on that day. A large part of those who visit the library on Sunday afternoon are boys who would probably be loafing on the street corners, if not in some worse place, were it not for the open reading room of the library. I believe the city does well to provide some place for them, where they may be surrounded by elevating influences. Doubtless more adults would come in the afternoon were there a place where they could have fairly good air and quiet. Though good order is kept in the room, the constant going and coming of the children is somewhat distracting to grown people, and to properly ventilate the room is impossible.

GIFTS—MAGAZINES.

In the summer an appeal was made in the local papers and in our library bulletin for magazines, both current and back numbers. The response to the appeal was most gratifying and the records show that 2,287 numbers have been donated. From these we have been able to add to the library forty volumes which were wanted to complete our periodical sets or were needed duplicates. Of many of the standard periodicals it is advisable to have two sets so that one may circulate and the other always be found in for reference use. Of others it is well to have duplicate copies because they are so much used that they soon wear out.

After the forty volumes referred to were bound there was still a large number of issues left. Part of these we have kept in the hope that future gifts or exchange may fill in the gaps and give us yet other complete volumes to add to our shelves.

PERIODICAL CLEANING-HOUSE.

The remainder not being useful to us, was sent to the periodical cleaning-house at Concord. This cleaning-house is conducted by the State Library Commission in the interest of the New Hampshire libraries. From these we hope to receive in return periodicals which will add to the value and usefulness of our collection.

ACKNOWLEDGEMENT AND APPEAL.

To all who, during the year, have given us either books, pamphlets, or magazines, we extend at this time our hearty thanks, but, like Oliver Twist, we call for "more". We would urge all to give to the library such

books and magazines as they do not care to preserve. Allow us to decide whether or not they are worth keeping. We would especially solicit gifts of local interest. Any books, papers, pamphlets, or programs relating in any way to Manchester or vicinity, or books on any subject published here, will be most thankfully received. Also any curios or articles of historic interest.

DEAN PURCHASE.

The collection of scientific and technical works known as the Dean Purchase has been augmented this year by 139 volumes.

Some very important accessions have been made both to the Dean Purchase and to the general library.

INVENTORY.

The inventory taken this year shows forty volumes missing. While we feel confident that some of these books will come to light, we regret that so many should remain as yet unaccounted for. The number is considerably larger than that of last year, but it is not large compared with other libraries.

LIBRARY MEETINGS.

Your librarian and Miss Newell attended the meeting of the American Library Association at Magnolia, Mass., June 14-20. Much inspiration is gained by hearing discussions upon library topics and by meeting other librarians, and it is believed that that the library would be fully repaid by better service should the assistants be granted time to attend State and National Library meetings.

STAFF MEETINGS.

Weekly staff meetings have been held regularly throughout the year with the exception of the months of July and August. These meetings have helped in giving those among us who were new to the work a better understanding of the scope and ideals of modern library methods, and have strengthened in us all that interest in our work and ardor for it which go so far towards making possible concerted action and success.

PUPIL ASSISTANTS.

Two pupil assistants have been allowed to enter the library during the year for the purpose of learning library work. Such assistants agree to give their services without remuneration for a certain number of months in return for the teaching which they receive. The first of these pupil assistants was Miss Grace W. Bushee of Merrimac, N. H., who stayed with

us three months and then left to enter the Amherst Summer School of Library Economy. She is now an assistant in the library of the Massachusetts Institute of Technology, Boston. The second pupil assistant to come to us was Miss Alice S. Furber of West Manchester who is still with us.

SUBSTITUTES.

Several boys who wished to fit themselves for substitute work have also come to us in much the same way. While during the first of their apprenticeship they need considerable attention, later on they will repay us by the routine work which they perform. In fact, they have done considerable work that otherwise would not have been done.

My gratitude is due to the trustees for their kind permission to make several changes which were suggested. I wish also to express at this time my hearty thanks to the members of the staff for their faithful services and their cordial co-operation with all plans for the welfare of the library.

Before closing this report I wish to say that many thanks are due to the local papers for their courtesy in publishing from time to time our various book lists and other notices.

Respectfully submitted,

F. MABEL WINCHELL,

Librarian.

APPENDIX I.

ACCESSIONS.

Increase by purchase	972
by gift	409
by binding periodicals	141
Total accessions for the year	1,522
Number of volumes in library as last reported	47,278
Whole number of accessions	48,800
Worn out volumes withdrawn from circulation	315
Number of volumes replaced	73
Number of volumes lost or injured and paid for.	15
Number of volumes lost and not yet paid for	20
Number of volumes burned by the Board of Health on account of contagious diseases	3
Number of magazines subscribed for	63
Number of magazines given	42
Number of newspapers subscribed for	4
Number of newspapers given	8
Total number periodicals received	117

APPENDIX II.

CIRCULATION AND REGISTRATION.

Number of days Library was open	306
---	-----

RECORD, BY CLASSES, OF VOLUMES ISSUED.

	No. vols.	Per ct.
General works	2,929	3.8
Philosophy and Religion	1,292	1.7
Biography	2,729	3.6
History	2,605	3.4
Geography and Travels	2,370	3.1
Social Sciences	728	1.0
Science and Useful Arts	3,327	4.3
Fine Arts	1,371	1.8
Literature	2,858	3.7
Fiction	56,506	73.6
Total number of volumes delivered for home use	76,715	
Average daily use (home)		251
Largest number any one day		541
Smallest number any one day		127
Largest number any one month		7,505
Smallest number any one month		5,320
Number of volumes delivered in Reading Room.		29,667

Average daily use	97
Total circulation for 1902	106,382
Number of volumes issued to teachers	1,493
Number of borrowers who have used study pockets.	108
(Study pockets were not granted until October 1.)	

REGISTRATION.

Number registered in 1902	612
Whole number issued since beginning last registration, 1880	14,273
Number of borrowers on deposit	18

CIRCULATION FOR TWELVE YEARS.

YEAR.	Home.	Library.	Total.
1891.....	56,265	8,270	64,535
1892.....	55,874	7,846	63,720
1893.....	55,295	8,203	63,498
1894.....	55,054	9,873	64,927
1895.....	59,495	10,934	70,429
1896.....	66,488	15,480	81,968
1897.....	78,141	16,813	94,954
1898.....	80,436	19,030	99,466
1899.....	77,159	17,399	94,558
1900.....	71,455	19,093	90,548
1901.....	72,298	28,404	100,702
1902.....	76,715	29,667	106,382

Circulation for previous years was given in the report for the year 1890.

APPENDIX III.

MISCELLANEOUS STATISTICS.

Number of books classified	1,290
Number of books catalogued	1,229
Cards written for pamphlets catalogued (estimated)	1,800
Number of volumes repaired at bindery	1,497
Number of volumes repaired and covered at the library.	21,733
Postals sent to delinquents	596
Reserve notices sent	1,005

Sunday Statistics.

ATTENDANCE.

	Men.	Women.	Children.	Total.
Average per Sunday.	449	115	1,559	2,123
	8.6	2.2	30.	40.8

CIRCULATION.

General works	1,918
Philosophy and Religion	105
Biography	45
History	74
Geography and Travels	55
Social Sciences	67
Science and Useful Arts	254
Fine Arts	63
Literature	496
Fiction	851
Total	3,928

APPENDIX IV.

RECEIPTS FROM FINES ETC., FROM DECEMBER 1, 1901 TO DECEMBER 1, 1902.

Received from fines	\$286.39	
“ “ catalogues sold	8.35	
“ “ books lost and paid for	14.39	
“ “ reserve notices	21.64	
“ “ miscellaneous sales	1.07	
		\$331.84
Paid for expressage and incidentals	88.44	
Paid to treasurer	\$243.40	

APPENDIX V.

Donations to Library.

	Books.	Pam- phlets.	Maga- zines.
Abbott, Mrs. O. D.	6		778
Abbott Public Library, Marblehead, Mass.		1	
Aberdeen, Scotland.—Public Library		1	
Adriance Memorial Library, Poughkeepsie, N. Y.		1	
Aguilar Free Library, New York City		1	
American Free Trade League		1	
American Institute of Instruction		1	
American Irish Historical Society		1	
Amherst College		1	
Ancient Free and Accepted Masons of Massachusetts		2	
Balch, E. S.	1		
Barker, E. F.		1	108
Batchelder, N. J.		5	

Beard, M. E.		25
Berry, J. M.	1	
Bigelow Free Public Library, Clinton, Mass.	1	
Birmingham, Eng.—Free Libraries Committee	1	
Boston, Mass.—Public Library	2	
Boston Musical Bureau	1	
Bronson Library, Waterbury, Conn.	1	
Brookline, Mass.—Public Library	1	
Brown University	3	
Browne, G. W.	1	
Burnham, E. J.	1	
Cambridge, Mass.—Public Library	1	
Carpenter, F. P.	3	
Carvelle, H. DeW.		140
Casco Bay Breeze Publishing Company	1	
Chicago, Ill.—Public Library	9	
Chicago and Northwestern Railway Company	1	
Chicago Municipal Library	3	
Christophe, B. M.		599
Concord, Mass.—Free Public Library	1	
Concord N. H.—Public Library	1	
Cosmos Pictures Company, 12 pictures.		
Cross, D.	1	
Currier, H. L.	4	
Dartmouth College	1	
Davis, H. F.		61
Depew, C.	1	
Detroit, Mich.—Public Library	1	
Dodge, T. H.	1	
Dover, N. H.—Public Library	1	
Dow, Mrs. H. M.	1	
Eames, Mrs. W. M.		112
Ehrlich, F.	1	
Enoch Pratt Free Library, Baltimore, Md.	1	
Evanston, Ill.—Free Public Library	1	
Fairmount Park Art Association, Philadelphia, Pa.	1	
Fitz Public Library, Chelsea, Mass.	1	
Fletcher Free Library, Burlington, Vt.	1	
Forbes Library, Northampton, Mass.	1	
Friends' Free Library, Germantown, Pa.	1	
Gallinger, J. B.	1	
General Theological Library, Boston, Mass.	1	
George, L. M.	1	
Gloversville, N. Y.—Free Library	1	
Gould, S. C.	3	
Grand Rapids, Mich.—Public Library	1	
Green, S. S.	1	

Hadley, C. J.		23
Hartford, Conn.—Bureau of Labor Statistics	1	
Harvard University	2	3
Helena, Mont.—Public Library	1	
Hillsborough County Commissioners	3	
Holland American Line	1	
Home Market Club	4	
Hubbard, M.		86
Hunt, G. F.	1	
Hunt, N. P.	2	
Huse, W. H.	1	4
Indian-Rights Association	3	
Iowa College	2	
Jay, W.	1	
Jersey City, N. J.—Free Public Library	1	
Jones, Mrs. F. A.		93
K., J. M.	2	
Kendall, Mrs. W. M.	3	42
Lake Mohonk Conference on International Arbitra- tion		1
Lawrence, Mass.—Free Public Library	1	
Lawson, T. W.	1	
Leffingwell, A.	1	
Library Company of Philadelphia		1
Life Publishing Company. 1 picture		1
Linehan, J. C.		1
Livingston, C. F.	6	81
Lubin, D.	1	
Lynn, Mass.—Public Library		1
Madison, Wis.—Free Library		1
Maimonides Free Library, New York City		1
Malden, Mass.—Public Library		1
Manchester, N. H.—Board of Trade	1	
“ City Engineer		2
“ Fire Department		1
“ Street and Park Commission		1
Manchester Historic Association		8
Manchester Institute of Arts and Sciences		1
Manufacturers' and Mechanics' Library Association, Lewiston, Me		1
Massachusetts Institute of Technology		2
Medford, Mass.—Public Library		1
Minneapolis, Minn.—Public Library		3
Morse Institute, Natick, Mass.		1
Mount Holyoke College		1
Nautical Preparatory School		1
New Bedford, Mass.—Free Public Library		1

New England Catholic Historical Society	2	
New England Society of Cincinnati	1	
New Hampshire—Insurance Commissioner	1	
“ Secretary of State	8	
“ State Board of Health	2	
New Hampshire College of Agriculture	101	
New Hampshire Library Commission	3	
New Hampshire Pharmaceutical Association	1	
New Haven, Conn.—Free Public Library	1	
New Jersey—State Library	1	
New York City—Mercantile Library	1	
New York State—College of Forestry	3	
New York State—State Library	3	
New York School of Journalism	1	
Newark, N. J.—Free Public Library	1	
Newell, L. E.—5 pictures		
Newington, N. H	1	
Newton, Mass.—Free Library	1	
North Dakota Agricultural College	1	
Page, Ralph M.—2 pictures		
Parlin Memorial Library, Everett, Mass	1	
Paterson, N. J.—Free Public Library	1	
Peabody Institute, Baltimore, Md.	1	
Pennsylvania Prison Society	1	
Peoria, Ill.—Public Library	1	
Perkins Institution and Massachusetts School for the Blind	1	
Peterboro, N. H	1	
Philadelphia, Pa.—City Institute	1	
“ Free Library	1	
Portland, Me.—Public Library	1	
Princeton University	1	
Providence, R. I.—Public Library	1	
Randolph, L. V. F	1	
Rhode Island Normal School	1	
Richards, L. S	1	
Robbins Library, Arlington, Mass.	1	
Robins, W. L	2	
Rochester N. H.—Public Library	1	
Rollins, F. W	1	
St. Louis, Mo.—Mercantile Library Association	1	
St. Louis, Mo.—Public Library	4	
Salem, Mass.—Public Library	1	
Sanborn, Mrs. A. H		18
Scranton, Pa.—Public Library	1	
Shakespeare Press	1	
Simmons, Mrs. E. E		34

Smith, E. C.	1	
Smyth, G. H.	1	
Somerville, Mass.—Public Library		6
Southbridge, Mass.—Library Committee	1	
Springfield, Mass.—City Library Association	1	
Sulloway, C. A., map.		
Syracuse, N. Y.—Public Library	1	
Tolman, M. M.		83
Tuck, E.	1	
United States.—Agricultural Department		70
“ “ Bureau of Education	2	3
“ “ Civil Service Commission	3	
“ “ Coast Survey		2
“ “ Interior Department, 135 maps	2	30
“ “ Interstate Commerce Commission	1	
“ “ Labor Department	1	12
“ “ Library of Congress	5	5
“ “ Smithsonian Institution	2	9
“ “ Superintendent of Documents, 5 atlases	155	163
United States.—Treasury Department	3	
“ “ War Department		2
University of Chicago		1
University of Illinois		2
University of Pennsylvania		1
University of Tennessee		7
Uruguay	2	1
Westborough, Mass.—Public Library		1
White, J. T., and Co.		1
Wilmington, Del.—Institute Free Library		1
Winchell, F. M.—1 picture.		
Wisconsin Free Library Commission		6
Woburn, Mass.—Public Library		1
Woodbury, F. D.		4
Worcester, Mass.—Public Library		1

Library Publications Received.

Boston Public Library.—Bulletin.
 Brookline Public Library.—Bulletin.
 Cossitt Library, Memphis, Tenn.—Bulletin.
 Dover Public Library.—Bulletin.
 Holyoke Public Library.—Library Record.
 Iowa Masonic Library.—Bulletin.
 Jersey City Free Public Library.—Library Record.
 Lynn Public Library.—Bulletin.

Malden Public Library.—Bulletin.
Medford Public Library.—Bulletin.
Nashua Public Library.—Bulletin.
New Hampshire Library Commission.—Bulletin.
New Haven Free Public Library.—Bulletin.
New York Public Library.—Bulletin.
Newark Free Public Library.—Library News.
Providence Libraries.—Bulletin.
Salem Public Library.—Bulletin.
Springfield City Library.—Bulletin.
United States Department of Agriculture.—Library Bulletin.
Wisconsin Free Library Commission.—Bulletin.

APPENDIX VI.

LIST OF PERIODICALS FOR 1903

Alpine Journal.
American Engineer and Railroad Journal.
American Historical Review.
American Journal of Science and Arts.
American Monthly Review of Reviews.
American Naturalist.
Ancient Free and Accepted Masons of Mass. Proceedings.—Gift.
Architects' and Builders' Magazine.
Arena.
Art Journal.
Association Review.—Gift.
Atlantic Monthly.
Birds and Nature.
Blackwood's Edinburgh Magazine.—English Edition.
Bookman.
Boston Society of Natural History. Memoirs.
Boston Society of Natural History. Proceedings.
Brown Alumni Monthly.—Gift.
Builder.
Bulletin of Bibliography.—Gift.
Case and Comment.—Gift.
Century.
Chamber's Journal.
Chicago Banker.—Gift.
Christian Science Journal.—Gift.
City of Chicago Statistics.—Gift.
Coryhill Magazine.
Cosmopolitan.

Critic.
 Cumulative Book Index.
 Cumulative Index to Periodicals.
 Eclectic Magazine.
 Edinburgh Review.—English Edition.
 Educational Review.
 Electrical World.
 Father Matthew Herald.—Gift.
 Forum.
 Good Housekeeping.—Gift.
 Good Words.
 Granite Monthly.
 Harper's Monthly Magazine.
 Harper's Weekly.
 Herald of the Golden Age.—Gift.
 Holy Cross Purple.—Gift.
 Horseless Age.
 Independent.—Gift.
 Journal of American Folk-Lore.
 Journal of Applied Microscopy.
 Journal of the Franklin Institute.
 Ladies' Review.—Gift.
 Lancet.
 Legal Bibliography.—Gift.
 Leisure Hour.
 Library Journal.
 Life.
 Lippincott's Magazine
 Literary News.
 Living Age.
 London Quarterly Review.
 Longman's Magazine.
 McClure's Magazine.
 Magazine of Art.
 Mount St. Mary's Record.—Gift.
 Nation.
 Nature Study.—Gift.
 New England Historical and Genealogical Register.
 New England Magazine.
 New Hampshire College of Agriculture. Bulletins.—Gift.
 Nineteenth Century.
 North American Review.
 Official Gazette of United States Patent Office.—Gift.
 Out West.—Gift.
 Outlook.
 Popular Science Monthly.
 Protectionist.—Gift.

Public Libraries.—Loaned.
Publishers' Weekly.
Punch.
Quarterly Calendar of the American Institute of Sacred Literature.—Gift.
Quarterly Review.—English edition.
Railroad Gazette.
St. Nicholas.
Salvation.—Gift.
Science and Industry.—Gift.
Scientific American.
Scientific American Supplement.
Scribner's Magazine.
Sound Currency.—Gift.
Sunset.—Gift.
Temple Bar.
Traveler's Record.—Gift.
United States Public Documents Catalogue.—Gift.
Universalist Leader.—Gift.
University of Tennessee Record.—Gift.
Westminster Review.—English Edition.
Wide World Magazine.—Gift.
Worcester Magazine.—Gift.
World's Work.—Gift.
Youth's Companion.

Newspapers.

Boston Weekly Journal.
Daily Mirror and American.
Emerald.—Gift.
Manchester Budget.—Gift.
Manchester News.—Gift.
Manchester Union.—Gift.
Mirror and Farmer.—Gift.
New Hampshire Farmer.—Gift.
New York Times. Saturday issue.—Gift.
New York Tri-Weekly Tribune.
New York Tribune Weekly Review.—Gift.
Plymouth Record.—Gift.
Wall Street Journal. Daily.—Gift.

REPORT OF THE CITY SOLICITOR.

REPORT OF THE CITY SOLICITOR.

APRIL 15, 1903.

To the City Councils:—

I herewith submit my report as solicitor for the year 1902.

The most important litigation to which the city was a party has been adjusted, viz: the tax cases brought against the city for an abatement of taxes by the Amoskeag Company for the years 1899, 1900 and 1901. The settlement included a basis upon which the Company should pay its tax for the year 1902.

The case of *Sheehan v. Manchester*, an action for damages caused by an alleged defective highway was tried by jury and a verdict found for the city.

McCrillis against the city which has been pending before the court for many years was heard before the county commissioners and damages awarded to the plaintiff.

Several claimants who presented claims for damages were given leave to withdraw.

Numerous small claims for damages caused by change of grade were settled.

The Amory Manufacturing Company has brought suit against the city for an abatement of its tax for the years 1901 and 1902 which have not as yet been heard.

Numerous other cases in which the city is an interested party are still pending.

GEORGE A. WAGNER,
City Solicitor.

REPORT OF THE BUILDING INSPECTOR.

REPORT OF THE BUILDING INSPECTOR.

OFFICE OF THE INSPECTOR OF BUILDINGS,
MANCHESTER, N. H., December 31, 1902.

To His Honor the Mayor and the Board of Aldermen.

The fourth annual report of the inspector of buildings is herewith submitted.

There have been one hundred and twenty-eight (128) new buildings erected during the year as follows:

Dwellings for one family	57
Dwellings for two families	19
3-tenement houses	18
4-tenement block	1
6-tenement block	1
Shoe factory	1
Ice house	1
Marble shed and office	1
Masonic home	1
Convent	1
Church	1
Brick blocks for stores and offices	2
Weave shed	1
Car barn	1
Boiler house	1

Seventy-five permits were granted during the year for alterations and additions. Among the most extensive of these were a shoe factory addition and brewery addition.

Respectfully submitted,
L. M. ALDRICH,
Inspector of Buildings.

REPORT OF THE OVERSEERS OF THE POOR.

REPORT OF THE OVERSEERS OF THE POOR.

MANCHESTER, N. H., December 31, 1902.

To His Honor the Mayor and Gentlemen of the City Council:

In compliance with the ordinance of said city, the overseers of the poor herewith present their annual report for the year 1902.

The number of families which have received more or less assistance off the farm during the year has been 250, consisting of 1300 persons, all of whom have a settlement in the city. The number of paupers supported at the Hillsborough county farm during the year has been 13, more or less of the time, at a cost of two dollars per week for each person, all of whom are insane and incurable.

The number of children supported at the State Industrial School during the year has been two, at a cost of one dollar and fifty cents per week for each child.

In compliance with sections 1 and 2, chapter 116, Public Statutes of New Hampshire, passed at the January session, 1895, in relation to the dependent minor children being supported at almshouses, the said minor children having a settlement in this city are supported as follows: at St. Patrick's Orphanage, eleven more or less of the time, at a cost of one dollar and twenty-five cents per week for each child. The said minor children have educational advantages.

The overseers of the poor have given 1730 orders to the paupers off the farm during the year. Said orders consisted chiefly of orders for provisions fuel, medicine, board, clothing, shoes, and emergencies. The amount allowed by the overseers of the several wards from time to time to those applying for assistance are as follows:

Ward 1	\$999.05	
Ward 2	1,081.34	
Ward 3	423.58	
Ward 4	939.63	
Ward 5	3,557.07	
Ward 6	182.13	
Ward 7	185.36	
Ward 8	1,823.37	
Ward 9	2,636.59	
Ward 10	407.65	
		\$12,235.77
Miscellaneous bills allowed for printing, stationery, conveyance, etc		236.80
Total amount allowed		\$12,472.57.

All of which is respectfully submitted.

GEORGE E. DAVIES.

BENJAMIN F. GARLAND,

DANIEL G. ANDREWS,

CHARLES B. CLARKSON,

THOMAS F. SHEEHAN,

CHARLES FRANCIS,

WILLIAM MARSHALL,

HENRY LEIN,

THOMAS C. STEWART,

JAMES H. MCKENZIE,

Board of Overseers of the Poor.

REPORT

OF THE

TRUSTEES OF CEMETERIES AND CEM-
ETERY FUNDS.

REPORTS OF THE TRUSTEES OF CEMETERIES AND CEMETERY FUNDS.

Pine Grove Cemetery.

To the Trustees of Cemeteries and the Board of Mayor and Aldermen :

GENTLEMEN:---In accordance with the directions of the sub-trustees of the Pine Grove cemetery, I hereby submit their report for the year 1902.

The same board of sub-trustees as for the year 1901 were in control and they kept the same superintendent and assistants in charge of the grounds and followed the same general plan as for the preceding years.

The abundant rains of last summer kept the lawns in unusually good condition, and we feel that the cemetery presented as good an appearance as ever before. New flower pots were planted, many additional trees and shrubs were set out, and all the grounds received careful attention.

The section known as the Swedish Mission Lawn and the Swedish Baptist Lawn were graded and grassed, and a new section lying south of these were prepared to be sold in single graves, of which there are one hundred and twenty-eight on the plan.

The price for a single grave including the burial of one body, has been fixed at \$18.00 of which \$8.00 is paid to the trustees of the Cemetery Fund, thus insuring watering and clipping of the grass.

Two adults or one adult and two children may be interred in any one grave, the price of burial of the second adult being \$4.00, and of each additional child \$3.50. The plan of having a section for single graves has been contemplated for some time, as in the past there has been quite a demand for them. The name of Woodside Lawn has been given to the section, and it will be managed under the same conditions as Hillside Lawn.

On the East side of the cemetery two hundred and fifty-two feet of iron fence was constructed, and all of the original cemetery now has an iron fence along both the Calef road and Brown avenue.

In several places in old portions of the grounds lots were re-graded, and the paths between the lots grassed over, and several pieces of border were smoothed. Over seven hundred and seventy feet of water pipe were laid; two standpipes and fifteen hydrants were erected; five hundred and forty-two feet of sewer pipe were laid, and two cesspools and two man-holes were built. Concrete driveways were top dressed to the extent of four hundred and eight square yards; and with the assistance of the trustees of the cemetery fund three thousand square yards of avenue were

macadamized. Slate bounds to mark the lots were set in Acacia Lawn, and in the section east of Pine Lawn, and one thousand more bounds purchased to be used the coming year. The average number of men employed was twelve. During the year thirty-nine new monuments were erected.

The total number of interments was two hundred and thirty-five, and of removals was twenty-one.

In 1902 twenty-six lots under perpetual care were sold; thirty-four under the new regulations which furnish water and keep the grass cut, four without care, and two single graves. There now remain, graded and unsold, twenty-eight lots on Riverside Lawn, twenty on Chapel Lawn, twenty-four on Pine Lawn, all under perpetual care, one hundred and thirty on Hillside Lawn under the new regulations, eight on Acacia Lawn and the single grave section which is known as Woodside Lawn. And after the eight on Acacia Lawn are disposed of, no lots will be sold except those which are under the provisions of the ordinance which puts a part of the purchase price into the hands of the Trustees of the Cemetery fund, and allows for the use of water and keeping the grass properly clipped. It is thus hoped and believed that in a short time the general appearance of the grounds will be greatly bettered, and if the practice of the last three years of re-grading each year some section and doing away with the gravel paths between lots is followed, there will be a marked and decided improvement.

The appropriation made by the city councils for the year was \$10,000 of which \$9,948.51 were expended. From the sale of lots, the expense of grading which has been paid for in preceding years, from interment fees and from the lots whose owners paid for care and water the sum of \$6,999.15 was received, which was all covered into the city treasury and used to pay current expenses, so that the total actual cost of the Pine grove cemetery for the year was \$2,948.36. When the results obtained are compared with the cost, the Sub-Trustees believe that the City's taxpayers will be well satisfied with the expenditure. During the year \$4,449.75 were added to the Cemetery fund, the income of which will be available for the future care of lots. The Sub-Trustees are again indebted to the Trustees of the Cemetery Fund for the sum of \$1,000, which was expended in macadamizing avenues, purchasing shrubs, and grading over old sections which much needed attention, and could get it no other way. Such expenditure is one purpose of the perpetual care fund, as the care of the lots under perpetual care by no means exhausts the income of the fund. However the Sub-Trustees are grateful to the Trustees of the fund for their assistance in the work, which is of a common interest to both boards. A matter will probably come before the new board of Mayor and Aldermen to which I deem it proper to refer at this time. I refer to the chapel, for which Miss Fannie E. A. Riddle left by her will a legacy, of \$15,000 to the city. The legacy was, as we understand, accepted by the last city government, and doubtless the money will be available in the near future. The Sub-Trustees hope that in the plans for the chapel

provision will be made for the office of the superintendent of the grounds.

The present chapel and office building is greatly in need of repairs, but the sub-trustees deemed it best not to expend much money upon it during the past year, having in view the probable erection of a new and permanent structure. The general arrangement of the chapel is fixed by the terms of the will of Miss Riddle, but it seems to us that, considering that the use of such a building for strictly chapel purposes is comparatively infrequent, it would be proper and fitting to combine with the chapel a Superintendent's office, and so make a building which would be highly useful as well as ornamental. The city would thus save the expense of a new administration building which must otherwise soon be built, and would seemingly carry out the testator's idea in making her gift, for she well knew the purposes for which the existing chapel is used and doubtless had in mind the erection of a building which would take its place both for religious and secular purposes.

We submit this suggestion to the careful consideration of the Mayor and Aldermen.

The Merrill Yard was looked after in the ordinary way. The expense was light there, and the receipts were \$10.

All of which is respectfully submitted.

EDWIN F. JONES,

Clerk of Sub-Trustees.

Amoskeag Cemetery.

The Sub-Trustees of Amoskeag Cemetery present the following report:

During the summer of 1902 there were five burials in Amoskeag Cemetery. One body was removed to Woburn, Mass. A few trees were added to those already growing in the yard. These, with the flowers and ornamental plants efficiently taken care of by the Superintendent, add much to the beauty of the grounds. The fence has been painted and all needed repairs have been done. The Cemetery is looking better than it ever did before, as well as it can be made to look with the limited appropriation that it receives. The lots are practically all occupied and the time will soon come when more land must be bought or burials there must cease.

(Signed) G. WALTER TAYLOR, Chairman.
WM. H. HUSE.

Valley Cemetery.

In behalf of the Trustees of Valley Cemetery, I will make the following report for year ending December 31, 1902.

C. H. G. Foss, our trusty Superintendent, has kept the grounds up to the former standard, and has improved the driveways and walks as far as our money would permit.

The rain last spring caused a washout on the bank in the valley which took a number of loads of sand, loam and turf to finish the work. The fence on the west side having become old and decayed a part of it has been replaced by new

We are in hopes to extend the work this next year.

MATERIALS USED.

Sand	330 loads
Loam	158 loads
Turf	1800 feet
Manure	3 cords
Teams employed	56 1-2 days
Cash receipts:	
For care and water for lots	\$1,080.15
For sundries	245.37
For tomb fees	183.50
For interments	163.50
For removals	28.00
Paid city treasurer	\$1,700 52

Respectfully submitted,

S. P. CANNON,

Clerk.

TREASURER'S REPORT.

To the Trustees of Cemeteries:

GENTLEMEN,—I herewith present to you the annual report of the money received during the year ending December 31, 1902:

Pine Grove Cemetery.

	Interest.	Price of Lots.	Permanent Fund.	Total.
Robert Wylie	\$1.44	\$46.14		\$47.58
Maria Kratz		37.50		37.50
Katie A. Marshall . . . . .	.53	46.13		46.66
Mary E. Dearborn		6.75		6.75
Ezra D. Clark	2.65	41.57		44.22
Frank D. McLaughlin		38.00		38.00
Mrs. Amanda Hulme		81.00		81.00
Mrs. S. E. Stearns	1.58	31.04		32.62
Erwin Alfred Hecker	1.20	34.46		35.66
Mrs. John Steele . . . . .	.40	66.96		67.36
William B. Stearns		6.75		6.75
Henrietta Van Vliet		82.13		82.13
Bertha H. Cook		10.00		10.00
Edward F. Scheer . . . . .	.76	38.46	\$48.08	87.30
Augusta Kebbon		19.98	24.98	44.96
H. Frank Morse		50.40	63.00	113.40
William G. Garmon		64.18	80.22	144.40
Samantha B. Van Brocklin		15.32	19.15	34.47
Joseph Broughton		20.00	25.00	45.00
Virtue M. Huskie		20.00	25.00	45.00
Ernestine Kuhn		15.88	19.85	35.73
John M. Kendall . . . . .	.33	23.80	29.76	53.89
Dora Boyle		24.00	30.00	54.00
Edmund Kendall . . . . .	.37	24.00	30.00	54.37
A. D. Scovell . . . . .	.39	23.43	29.30	53.12
Charles P. Tuxbury . . . . .	.50	20.00	25.00	45.50
Archibald McNay . . . . .	.75	20.00	25.00	45.75
J. A. & H. S. Wilson	2.67	72.00	90.00	164.67
Thomas W. Lane		82.71	103.38	186.09
Est. Annie Hill		12.55	15.69	28.24
Donald McIntire . . . . .	.39	20.00	25.00	45.39
Edwin S. Fletcher & Lizzie M. Derby		24.00	30.00	54.00

William Scholz		20.00	25.00	45.00
John F. Cheney . . . . .	.50	20.74	25.93	47.17
Henry C. Sacks . . . . .	.59	24.00	30.00	54.59
Georgia A. Putnam & Forest M. Laraba		46.35	57.93	104.28
Annie L. Alquist . . . . .	.85	32.60	40.75	74.20
Hattie E. McCanley & Sarah D. Woodman		46.80	58.50	105.30
Elizabeth Evans . . . . .	.15	20.00	25.00	45.15
Frederick S. Lewis		74.27	92.84	167.11
Edwin W. Merrill		51.92	64.91	116.83
Frank W. Stevens . . . . .	.53	20.00	25.00	45.53
Mrs. F. S. Brunner		20.00	25.00	45.00
Emil G. Dietch		10.00	8.00	18.00
Lizzie Beverly		10.00	8.00	18.00
William B. Marshall . . . . .	.50	29.56	81.29	111.35
Eliza Creighton	4.20	28.98	79.71	112.89
Charles Francis		60.00	165.00	225.00
Winifred F. Thurston	3.15	29.06	79.91	112.12
Amos H. Stebbins		43.75	120.30	164.05
Jennie Carpenter	\$17.00	\$36.52	\$100.44	\$153.96
Charles J. Darrah		72.00	198.00	270.00
Lucretia L. Burleigh		34.50	94.87	129.37
Leonard G. Smith and Mary L. Waite		67.60	175.92	253.52
C. B. Littlefield	3.39	30.00	82.50	115.89
Mary E. Proctor and Nellie B. Proctor and Charles A. Hoitt	3.22	85.80	257.40	346.42
Helen A. Weston		33.36	91.75	125.11
Elbertine M. Martin		30.00	82.50	112.50
Estate Harrison Mitchell . . . . .	.89	49.50	136.13	186.52
Mrs. Lucy E. Northrup		31.11	85.56	116.67
Burton H. Avery		31.87	87.66	119.53
Elthea M. Emerson		29.57	81.30	110.87
Elbertine M. Martin		30.00	82.50	112.50
Estate Charles D. McDuffie		129.08	387.25	516.33
Charles H. Colburn		30.00	82.50	112.50
George H. Dudley		30.00	82.50	112.50
Hattie M. Davis . . . . .	.82	28.82	79.26	108.90
L. Francina Kennedy	2.45	33.36	91.25	127.06
Katherine Eschelmuller . . . . .	.90	25.48	70.07	96.45
William Cooper		30.25	83.20	113.45
Joseph L. Hosmer		85.24	255.71	340.95
Total receipts	\$53.10	\$2,661.23	\$4,449.75	\$7,164.08
J. H. Erksine, superintendent				4,284.82
J. H. Erksine, superintendent of Merrill yard				10.00
				\$11,458.90

CR.

By amount transferred to Cemetery Fund	\$4,449.75
Treasurer's Receipts	2,714.33
Superintendent Receipts	4,284.82
Superintendent Receipts, Merrill Yard	10.00
	<hr/>
	\$11,458.90

Valley Cemetery.

To cash received from C. H. G. Foss, sperintendent for care of lots	\$1,700.52
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CR.

By superintendent receipts	\$1,700.52
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Respectfully submitted,

FRED L. ALLEN.

Treasurer of Trustees of Cemeteries.

I hereby certify that I have examined the accounts of Fred L. Allen, treasurer of the cemeteries, and find the same are correctly cast and vouched for.

JAMES E. DODGE.

City Auditor.

CEMETERY FUND.

TREASURER'S REPORT.

To the Trustees of the Cemetery Fund.

GENTLEMEN,—I herewith submit to you the twentieth annual report of the funds received and expenses paid to January 1, 1903.

Pine Grove Cemetery.

Amount of permanent fund on hand January 1, 1902 \$59,222.81

RECEIPTS DURING THE YEAR.

From Frank Babel	\$100.00
Mary Dearborn	194.12
Edwin Flanders, executor of the estate of L. A. Burns	196.56
D. O. Fernald and H. R. Philbrick	149.36
P. R. Morse, executor of the estate of Mary Moore	100.00
E. C. Sanborn, administrator of the estate of William Hulme	129.60
Frederick W. Cheney	112.00
Mrs. Frank Schnauder	178.60
A. J. Edgerly, administrator of the estate of Alfred Richards	144.00
E. I. Kendall, administrator	100.00
J. Lunette Colby	100.00
Charles P. Porter	144.00
Gilman Stearns	144.00
To amount transferred from Pine Grove Cemetery for perpetual care lots	3,224.48
Single Grave Section	16.00
Partial Perpetual Care, Hillside Lawn	1,209.27
	<hr/>
	\$6,241.99
Total amount of fund	<hr/> \$65,464.80

Cr.

By bonds on hand January 1, 1902	\$55,050.00	
bonds bought during the year	4,000.00	
cash on hand	6,414.80	
	<hr/>	\$65,464.80

INCOME ACCOUNT.

Income on hand January 1, 1902	\$3,125.89
Interest coupons	2,507.50
Interest savings bank deposit	247.70
Interest savings bank, Hillside Lawn	7.35
	<hr/>
	\$5,888.44

EXPENSES PAID DURING THE YEAR.

A. G. Hood	\$39.50
A. K. Hobbs	58.72
Russia Cement Company	37.00
George W. Bailey.	5.00
W. J. Hayes & Sons, Premium on bonds	216.07
Pay-roll, macadamizing	276.00
J. H. Erksine, superintendent	1,498.00
Herman B. Neal	8.70
Palmer & Garmon	7.24
Charles A. Bailey	612.70
	<hr/>
Total expenses	\$2,758.93
Cash income on hand	3,129.51
	<hr/>
	\$5,888.44

Valley Cemetery.

Amount of permanent fund January 1, 1902	\$21,989.07
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RECEIPTS DURING THE YEAR.

From Louise S. Balch, administrator	\$157.00
George A. Batchelder and James O. Lyford ex- ecutors of the estate, R. M. Batchelder . . .	300.00
George I. McAllister, administrator of the es- tate of Eliza Ann Brooks	200.00
Ada F. Daniels and B. S. Briggs, executors of the estate of Frank W. Daniels	212.00
Mrs. Dana C. Collins	100.00

From Emma S. Kidder	100.00	
W. Farnham Smith	150.00	
Mrs. Sarah Gay	120.00	
Albert O. Brown, executor of estate of Lizzie C. Baker	100.00	
C. H. G. Foss	115.00	
Mrs. D. B. Varney	117.80	
W. H. Elliott	200.00	
Mrs. E. B. Holden	104.80	
Mrs. F. G. Chapman, (extra payment)	10.00	
Helen Congdon	175.00	
Martha R. Currier, executor of the estate of S. Josephine Butterfield, J. W. Joy lot	500.00	
Susan D. Palmer	124.00	
Susan D. Palmer	113.60	
		<hr/>
		\$2,899.20
		<hr/>
Total amount of fund	24,888.27	

Cr.

By bonds on hand January 1, 1902	\$18,500.00	
bonds bought during the year	6,000.00	
cash on hand	388.27	
		<hr/>
		\$24,888.27

INCOME ACCOUNT.

Income on hand January 1, 1902	\$2,587.97	
Interest coupons	865.00	
Interest from savings bank deposit	127.65	
Albert O. Brown, executor	7.00	
Martha R. Currier, executrix	166.50	
		<hr/>
		\$3,754.12

EXPENSES PAID DURING THE YEAR.

C. H. G. Foss, superintendent	\$493.60	
W. J. Hayes & Sons, premium on bonds	324.10	
Cash income on hand	2,936.42	
		<hr/>
		\$3,754.12

GALE FUND, VALLEY CEMETERY.

Income on hand January 1, 1902	\$131.88	
Interest from savings bank	5.17	
Interest from fund	12.12	
		<hr/>
		\$149.17

CR.

By cash paid C. H. G. Foss, superintendent	\$6.00	
Cash on hand December 31, 1902	143.17	
		<hr/>
		\$149.17

Merrill Yard.

Amount of fund January 1, 1902	\$487.89
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CR.

By bonds on hand	\$450.00	
By cash on hand	37.89	
		<hr/>
		\$487.89

INCOME ACCOUNT.

Income on hand January 1, 1902	\$160.11	
Interest from savings bank	4.34	
Interest coupons	22.50	
		<hr/>
		\$186.95

CR.

By cash on hand	\$186.95
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Respectfully submitted,

FRED L. ALLEN,
Treasurer of Trustees of Cemetery Funds.

This is to certify that I have examined the books of accounts of Fred L. Allen, treasurer of the trustees of the cemetery funds, embracing the receipts and expenditures for the year 1902, and I find the same correct and properly vouched. I have also examined the securities in which said fund is invested and find as follows:

PINE GROVE CEMETERY.

20 city of Manchester 5 per cent bonds (Nos. 1, 2, 3, 5, 6, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 22, 23, 24, 26, 28); due in 1942; denomination \$1,000 each . . .	\$20,000.00
2 city of Manchester 5 per cent bonds (Nos. 1, 3); due in 1942; denomination \$500, each	1,000.00
1 city of Manchester 5 per cent bond (No. 3.)	50.00

14 city of Manchester 5 per cent bonds (Nos. 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17); due in 1913; denomination \$1,000 each	14,000.00
1 city of Manchester 5 per cent bond (No. 2); due in 1913	500.00
5 city of Manchester 5 per cent bonds (Nos. 1, 2, 3, 9, 10); due in 1913; denomination \$100 each	500.00
11 city of Manchester 3 1-2 per cent bonds; due in 1919; denomination \$1,000 each	11,000.00
6 city of Manchester 4 per cent bonds, due 1909	6,000.00
2 city of Manchester 4 per cent bonds, due 1916	2,000.00
4 city of Manchester 3 1-2 per cent bonds, due 1922	4,000.00
	<hr/>
Cash on deposit in Manchester Savings Bank, Book No. 50,420	\$588.85
Cash on deposit in Mechanics Savings Bank, Book No. 3,413	7,722.84
Cash on deposit in Mechanics Savings Bank, Book No. 4,407	1,216.62
Cash on deposit in Mechanics Savings Bank, Book No. 4,522	16.00
	<hr/>
	\$9,544.31
Total amount permanent fund and income, December 31, 1902	68,594.31

VALLEY CEMETERY.

4 city of Manchester 5 per cent bonds (Nos. 1, 6, 11, 18); due in 1913; denomination \$1,000 each	\$4,000.00
1 city of Manchester 5 per cent bond (No. 1); due in 1913; denomination \$500	500.00
3 city of Manchester 5 per cent bonds (Nos. 6, 7, 8); due in 1913; denomination \$100 each	300.00
8 city of Manchester 5 per cent bonds (Nos. 4, 7, 12, 19, 20, 21, 25, 27); due in 1942; denomination \$1,000 each	8,000.00
2 city of Manchester 5 per cent bonds (Nos. 2, 4); due in 1942; denomination \$50 each	100.00
3 city of Manchester 4 per cent bonds; due 1916	3,000.00
2 city of Manchester 3 1-2 per cent bonds (Nos. 81, 100); due in 1919; denomination \$1,000 each	2,000.00
6 city of Manchester 3 1-2 per cent bonds; due 1922	6,000.00
6 city of Manchester 5 per cent bonds (Nos. 3, 4, 5, 6, 7, 8); due in 1942; denomination \$100 each	600.00
Cash on deposit in Guaranty Savings Bank, Book No. 4,257	2,074.70
Cash on deposit in Amoskeag Savings Bank, Book No. 68,808	1,249.99
	<hr/>
Total permanent fund and income December 31, 1902	\$27,824.69

MERRILL CEMETERY.

2 city of Manchester 5 per cent bonds (Nos. 4, 5); due in 1913; denomination \$100 each	\$200.00
2 city of Manchester 5 per cent bonds (Nos. 1, 2); due in 1942; denomination \$100.00 each	200.00
1 city of Manchester 5 per cent bond (No. 1); due in 1942, denomination \$50.00	50.00
Cash on deposit in Guaranty Savings Bank, Book No. 5116	64.04
Cash on deposit in Amoskeag Savings Bank, Book No. 69,517	160.80
Total amount of fund and income December 31, 1902 . .	\$674.84

GALE FUND.

Cash on hand in Amoskeag Savings Bank, Book No. 34,108	143.17
Total amount of permanent fund and income on hand . .	\$97,237.01

JAMES E. DODGE,
City Auditor.

REPORT

OF THE

TRUSTEES OF THE SINKING FUND.

REPORT OF THE TRUSTEES OF THE SINKING FUND.

MANCHESTER, N. H.

To the City Councils of the City of Manchester :

GENTLEMEN,—As required by chapter 37, section 2, of the City Ordinances of Manchester, the trustees of the sinking funds of the City of Manchester herewith report the condition of the several funds January 1, 1903, with receipts and payments for the year ending December 31, 1902.

H. P. SIMPSON.

CHAS. H. MANNING.

FRED L. ALLEN.

Trustees of the Sinking Fund.

To the City Councils of the City of Manchester :

GENTLEMEN,—I herewith transmit to you my report as treasurer of the sinking fund for the year ending December 31, 1902.

IMPROVEMENT LOAN.

DR.

Total amount of fund January 1, 1902, for the pay- ment of improvement bonds	\$141,699.48
Appropriation for 1902	20,000.00
Income from interest on bonds	4,910.00
Income from savings bank deposits	81.22
	————— \$166,690.70

CR.

By bonds on hand December 31, 1902	\$155,000.00
Accrued interest and premium	2,023.90
Cash on hand December 31, 1902	9,666.80
	————— \$166,690.70

WATER LOAN.

DR

Total amount of funds January 1, 1902, for the pay- ment of water bonds	\$189,079.53
Water-works, hydrant service, 1902	18,800.00

Appropriation, 1902	5,000.00	
Income from interest on bonds	4,581.00	
Income from bank deposit	133.83	
Premium received for bonds sold	2,079.00	
		<hr/> \$219,673.36

Cr.

City of Manchester, payment of Water bonds, due January 1, 1902	\$100,000.00	
Premium and interest paid for bonds bought dur- the year	799.58	
Bonds on hand December 31, 1902	116,000.00	
Cash on hand December 31, 1902	2,873.78	
		<hr/> \$219,673.36

SCHOOL LOAN.

Dr.

Total amount of fund January 1, 1902	\$10,005.00	
Appropriation, 1902	2,000.00	
Interest on bonds	360.00	
Interest from saving banks deposits	3.14	
		<hr/> \$12,368.14

Cr.

Bonds on hand December 31, 1902	\$12,000.00	
Premium and interest paid for bonds bought dur- ing the year	76.31	
Cash on hand December 31, 1902	291.83	
		<hr/> \$12,368.14

CITY FUNDING LOAN.

Dr.

Amount of fund January 1, 1902	\$10,114.58	
Appropriation, 1902	5,000.00	
Interest on bonds	200.00	
		<hr/> \$15,314.58

Cr.

Premium paid for bonds bought during the year. .	210.25	
Bonds on hand December 31, 1902	5,000.00	
Cash on hand December 31, 1902	10,104.33	
		<hr/> \$15,314.58

Respectfully submitted.

FRED L. ALLEN,

Treasurer of Sinking Fund.

REPORT OF THE TRUSTEES OF THE SINKING FUND. 509

This is to certify that I have examined the books of accounts of Fred L. Allen, treasurer of the trustees of the sinking fund, embracing the receipt and expenditures for the year ending December 31, 1902, and find the same correct and properly vouched. I have also examined the securities in which fund is invested, and find as follows:

Bonds of the city of Manchester for the payment of improvement bonds:	
4 per cent, due 1907	\$9,000.00
4 per cent, due 1908	10,000.00
4 per cent, due 1909	11,000.00
4 per cent, due 1910	10,000.00
4 per cent, due 1913	15,000.00
4 per cent, due 1914	5,000.00
4 per cent, due 1915	27,000.00
4 per cent, due 1917	16,000.00
3 1-2 per cent, due 1919	34,000.00
3 1-2 per cent, due 1922	18,000.00
Cash on hand December 31, 1902	9,666.80
	<hr/> \$164,666.80

Bonds of the city of Manchester for the payment of water bonds:	
4 per cent, due 1907	\$6,000.00
4 per cent, due 1909	12,000.00
4 per cent, due 1910	6,000.00
4 per cent, due 1913	1,000.00
4 per cent, due 1914	18,000.00
4 per cent, due 1915	17,000.00
4 per cent, due 1916	11,000.00
4 per cent, due 1917	22,000.00
3 1-2 per cent, due 1919 ²	23,000.00
Cash on hand December 31, 1902	2,873.78
	<hr/> \$118,873.78

Bonds of the city of Manchester for payment of school bonds:	
4 per cent, due 1909	\$3,000.00
4 per cent, due 1910	2,000.00
4 per cent, due 1914	2,000.00
4 per cent, due 1915	2,000.00
4 per cent, due 1916	1,000.00
3 1-2 per cent, due 1919	2,000.00
Cash on hand December 31, 1902	291.83
	<hr/> \$12,291.83

For the payment of city funding bonds:	
3 1-2 per cent, City of Manchester bonds due 1922,	\$5,000.00
Cash on hand	10,104.33
	<hr/> \$15,104.33
Total amount of bonds in sinking fund	\$288,000.00
Total amount of cash in sinking fund	22,936.74
	<hr/> \$310,936.74

JAMES E. DODGE,
City Auditor.

RESOLUTIONS, ORDERS, ORDINANCES.

RESOLUTIONS, ORDERS, ORDINANCES, PASSED IN 1902.

CITY OF MANCHESTER.

RESOLUTION relating to an Appropriation for the Erection of a Schoolhouse on South Beech street.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the land for a schoolhouse on South Beech street having been purchased during the year 1901, and

WHEREAS, The accomodation of the public demands that a schoolhouse be erected thereon during the ensuing year: therefore, be it

Resolved, That a special appropriation of ten thousand dollars by the common council is recommended; said sum of ten thousand dollars to be used for the erection of a schoolhouse on South Beech street.

Passed January 7, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to a Side Track for the East Side Company across Valley street.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

Resolved. That for the accomodation of the East Side Company leave be and hereby is granted the Boston & Maine R. R. to build a side-track described as follows:

Beginning at a point on the Concord and Portsmouth branch of the Boston & Maine Railroad about 112 feet easterly of the switch to the side-track leading to the Elliott Silk Mill, so called; thence westerly and southerly across Valley street by a curve of about 286 1-2 feet radius to the land of The East Side Company, measuring on the south line of Valley street about 56 feet easterly of the east line of Hall street; thence continuing on the same curve to a line parallel to Hall street and six feet easterly of the east line of Hall street; thence along said parallel line about 250 feet; said above-described line to be the center line of track and the gange to be four feet eight and one-half inches.

Passed January 7, 1902.

CITY OF MANCHESTER.

RESOLUTION amending a resolution Exempting from Taxation the Manufacturing Establishment proposed to be erected and leased by The East Side Company.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows :

WHEREAS, Conditions exist which may prevent the shoe industry proposed by The East Side Company being in operation by the first day of April, 1902; therefore, be it

Resolved, That the resolution passed by the board of mayor and aldermen September 3, 1901, be amended in the twenty-first line thereof after the word "of", by striking out the word "April" and inserting in place thereof the word "June", so that said resolution as amended shall read as follows :

"WHEREAS, It is provided by section 11, chapter 55, of the Public Statutes of the State of New Hampshire that "towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town", and

WHEREAS, The East Side Company proposes to purchase land and erect thereon a manufacturing establishment and operate or lease the same to be operated with machinery for manufacturing purposes,

Resolved, That the land to be acquired by the East Side Company and the manufacturing establishment proposed to be erected thereon or put in operation therein, and the capital to be used in operating the same and the business connected therewith, by them or their lessees, be exempted from taxation for a period of ten years from the first day of April, 1902; provided, a shoe industry is conducted on said premises during said period and is in operation on the first day of June, 1902; otherwise this resolution shall not be effective."

Passed January 7, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to the Exemption from Taxation of the Manchester Stocking Company.

Resolved by the Mayor and Aldermen of the city of Manchester in City Council assembled, as follows :

WHEREAS, The Manchester Stocking Company desires to locate its business, and carry on the manufacture and product of stockings and other articles in the city of Manchester, therefore,

Resolved, That the Manchester Stocking Company, aforesaid, its machinery, materials, raw and in process of manufacture, and other property necessary in conducting said business, be and hereby is exempt from all taxation for a period of ten years from the first day of April A. D. 1902.

Passed January 7, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to Concreting a part of North Main, Marion, and Wayne Streets.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the petition of Eugene Quirin et als. for concreting North Main street from Marion to Amory street; Marion street from McGregor to North Main street and Wayne street from McGregor to North Main street: be referred to the board of common council with the recommendation that the prayer of the petitioners be granted, and be it further

Resolved, That a special appropriation of forty-five hundred dollars is recommended: said sum of forty-five hundred dollars to be used in concreting North Main, Marion, and Wayne streets as petitioned for in the petition of Eugene Quirin et als., under date of January 31, 1901.

Passed January 7, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to an Appropriation for New Bridges at Granite Street.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, The accommodation of the public demands a bridge over the tracks of the Manchester and North Weare Railroad at Granite street; and

WHEREAS, the general traffic requires a stronger and wider bridge over the canal at Granite street; therefore, be it

Resolved, That an appropriation of ten thousand dollars by the board of common council is recommended; and that said sum of ten thousand dollars be used for a new bridge over the canal at Granite street, and a bridge over the tracks of the Manchester and North Weare Railroad at Granite street.

Passed January 7, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to an Appropriation for Enlarging Culverts over Cemetery Brook.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, Some relief should be given the residents of East Manchester by reason of the inadequate culverts over Cemetery Brook so called, in said Manchester; therefore, be it

Resolved, that a copy of the petition of Robert Kirk, et als, under date of January 2, 1902, be referred to the board of common council with the recommendation that the prayer of the petitioners be granted; and be it further

Resolved, That a special appropriation of ten thousand dollars (\$10,000) by the board of common council be and is hereby recommended: said sum of ten thousand dollars to be expended for enlarging the culverts over Cemetery Brook in said Manchester.

Passed January 7, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to the Improvement of Wolf Park.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, Wolf Park, so called, situated in West Manchester in the said City of Manchester is in need of improvement; therefore, be it

Resolved, That the board of mayor and aldermen recommend to the board of common council that a special appropriation of five hundred dollars be passed: and that said sum of five hundred dollars be used to improve and beautify the said Wolf Park.

Passed January 7, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to the Final Transfers for the year 1901.

Resolved by the Board of Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to make the following transfers, to wit:

To money unappropriated:

From interest	\$681.90
city teams	115.92
repairs of Mill street	816.35
mayor's incidentals	63.50
auditor's department	1.65
street and park commission	158.51
macadamizing streets	579.20
watering streets	1,080.43
street sweeping	21.61
bridges	1,118.86
scavenger service	542.39
new sewers	5,275.61
lighting streets	1,529.08
grading for concrete	684.60
health department	169.10
repairs of schoolhouses	12
furniture and supplies	141.75
books and stationery	12.98
care of rooms	76.70

RESOLUTIONS, ORDERS, ORDINANCES.

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evening schools	18.40
evening drawing school	22.50
manual training	3.67
fuel	109.38
contingent expenses	12.21
teachers' salaries	7.62
sewing materials	3.81
police court	148.78
police commission	1,220.36
commons	392.17
Valley cemetery	41.27
Amoskeag cemetery	108.58
Pine Grove cemetery . . . . .	.40
Merrill cemetery	58.98
indigent soldiers	14.50
militia	100.00
abatement of taxes	670.30
board of plumbing examiners	18.38
furnishing rooms, Parker school	5.23
repairs of buildings	171.65
schoolhouse lot, South Beech street	29.00
wind break	10.00
free cash in treasury in excess of appropriations	2,686.43

\$18,924.38

From money unappropriated:

To printing and stationery	\$9.39
incidental expenses	1,030.26
snow and ice	160.57
land taken for highways	285.17
paving streets	338.10
repairs of highways	7,459.98
new highways	2,485.11
repairs of sewers	178.84
city hall	472.67
city officers' salaries	1,591.99
printing and advertising	2.14
fire department	1,908.76
fire-alarm telegraph	124.30
police station	353.03
land sold for taxes	359.23
engineer's department	251.96
Stark park	5.75
Derryfield park	150.20
Paupers off farm	1,919.89
city farm	37.04

\$19,124.38

Passed January 6, 1902.

CITY OF MANCHESTER.

RESOLUTION making a Temporary Loan of Three Hundred Thousand Dollars.

Resolved by the Common Council of the City of Manchester in City Council assembled, as follows :

That for the purpose of paying such claims against the city as may fall due before the twentieth day of December, 1902, the city treasurer be and hereby is authorized to make such temporary loans from time to time for the use of the city, of sums not exceeding the amount of three hundred thousand dollars, being in anticipation of the taxes of the present year, giving for the same the notes of the city signed by the treasurer and countersigned by the mayor.

Passed January 10, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to Interest on Deposits of the City of Manchester.

Resolved by the Mayor and Aldermen of the City of Manchester in City Council assembled, as follows :

That the moneys of the city of Manchester be deposited in such bank or banks in said city as shall pay the largest rate of interest to said city of Manchester upon daily balances in said bank or banks from the first day of May, 1902, to the first day of May, 1903; and that the city treasurer be and hereby is instructed to advertise for bids from the banks of the city of Manchester by sending to each of said banks a copy of this resolution; the city of Manchester by its agent, the treasurer of said city, reserving the right to reject any and all bids and call for such other bids as may be necessary to carry out the intent of this resolution, and the mayor and the treasurer of said city of Manchester are hereby authorized and empowered to accept such bid or bids as will give the city of Manchester the largest rate of interest upon the daily balances on deposits of the moneys of said city of Manchester in said bank or banks from the first day of May, 1902, to the first day of May, 1903.

Passed April 15, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to the Employment of Residents of the City of Manchester In and Upon the Public Works of said City and fixing the Hours of a Day's Labor in the City Departments of said City.

Resolved by the Mayor and Aldermen of the City of Manchester in City Council assembled, as follows :

That the heads of all departments of the city of Manchester be and hereby are instructed to employ only residents of the city of Manchester

in and upon the public works of said city; and that a clause providing for the employment of said residents be inserted in all contracts for public works to which the city shall be a party, giving preference, as far as possible, to the said residents of said city; and be it further

Resolved, That in all departments of said city excepting the fire and police departments a day's labor shall not exceed nine hours; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed April 1, 1902.

CITY OF MANCHESTER.

RESOLUTION regulating the Hours of a Day's Labor in the Police Department of the City of Manchester.

Resolved by the Mayor and Aldermen of the City of Manchester in City Council assembled, as follows:

That the police commissioners of the city of Manchester be and hereby are requested to fix a day's labor in the police department of said city so as not to exceed nine hours.

Passed April 1, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to Bonds of Telephone, Telegraph and Electric Light Companies indemnifying the city.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, The proprietors of every line of wire strung in a highway shall indemnify the town against all damages, costs, and expenses to which it may be subjected by reason of any insufficiency or defect in the highway occasioned by the presence of the wires and their supports therein; and

WHEREAS, They shall also be responsible directly to any party receiving injury in his person or estate from the wires or their supports, or from the use thereof by the proprietors; therefore be it

Resolved, That all telegraph, telephone and electric light companies now doing business in said Manchester be required to file with the said city the bond as required by the Public Statutes.

Passed May 6, 1902.

CITY OF MANCHESTER.

RESOLUTION authorizing the Mayor and City Solicitor to Adjust and Compromise the Amoskeag Tax cases.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That the mayor and city solicitor be and hereby are authorized to adjust and compromise the suits of the Amoskeag Manufacturing Com-

pany against the city on the following basis: The corporation to pay a tax of \$100,000 a year for the years 1898, 1899, 1900 and 1901, the city to pay interest on the sum in excess of \$100,000 for the several years above-mentioned at the rate of four per cent until paid, each party to pay its own costs.

The corporation to pay upon 70 per cent of the selling price of its shares of stock reckoned upon a valuation of \$7,600,000, or upon a taxable valuation of \$5,320,000, for the year 1902.

Passed May 6, 1902.

CITY OF MANCHESTER.

RESOLUTION authorizing the Mayor to Sign a Bond in behalf of the City to Indemnify the Plaintiff in the Gibbs suit,

Resolved, by the Mayor and Aldermen of the city of Manchester, in City Council assembled, as follows:

That the mayor be and hereby is authorized to execute and sign a bond in behalf of the city in the sum of one thousand dollars to indemnify the plaintiff in the case of Elmer E. Gibbs against the city of Manchester in the event of the city being found liable for costs incurred by reason of proceedings brought before the Superior court, whereby the plaintiff was enjoined from collecting an execution against the city before the close of the May term of the Superior court for Grafton county.

Passed May 16, 1902.

CITY OF MANCHESTER.

RESOLUTION recommending an Appropriation for new Trees and Tree Boxes.

Resolved, by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, It has been the custom of the city in past years to replace dead trees and to protect young trees by placing tree boxes about them, and to keep abreast with the times by planting new trees wherever in the opinion of the committee on setting trees the public good requires; therefore be it

Resolved, That an appropriation of one hundred and five dollars is recommended to the board of common council, and that said sum of one hundred and five dollars be charged to the appropriation known as "to be hereafter appropriated", and that said sum of one hundred and five dollars be used for new trees and tree boxes.

Passed May 16, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to a Temporary Loan.

Resolved, by the Board of Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of completing the new schoolhouse in South Manchester, the city treasurer be and hereby is authorized to make a

temporary loan not exceeding the sum of two thousand dollars (\$2,000) giving for the same the note of the city of Manchester signed by the said treasurer and countersigned by the mayor of said city, and payable December 5, 1902; said sum of two thousand dollars (\$2,000) to be used for completing the new schoolhouse in South Manchester.

Passed May 23, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to the Issuance of \$80,000 of City Bonds to satisfy the Judgment obtained by the Amoskeag Manufacturing Company against the City of Manchester.

Resolved by the Common Council of the City of Manchester in City Council assembled, as follows:

That for the purpose of obtaining eighty thousand dollars (\$80,000) with which to pay the said judgment of the Amoskeag Manufacturing Company there be issued the bonds of the city of Manchester to the amount of eighty thousand dollars, said bonds to be dated July 1st, 1902, and payable to bearer twenty years from the date thereof.

Said bonds to bear the city seal, to be signed by the mayor and countersigned by the city treasurer, and to bear interest at the rate of three and one-half per cent per annum from date, and to have coupons attached bearing the fac-simile signature of the city treasurer for the payment of interest at said rate, semi-annually, on the first days of January and July of each year; and the treasurer is authorized to fix the place of payment of interest and principal of said bonds, and is hereby authorized to sell said bonds, and do all things necessary and proper to complete and carry into effect the issue of said bonds.

Said bonds to be issued in accordance with an act of the legislature of New Hampshire, passed at the January session, 1895, entitled, "An act to authorize municipal corporations to issue bonds."

Resolved, further, That for the purpose of paying the interest and principal of said bonds as the same shall become due, there shall be annually raised by tax by the common council in the years of 1903 to 1922, inclusive, such sum of money as shall be sufficient to meet the interest upon the bonds each year outstanding; and a further sum of four thousand dollars (\$4,000) each year for a sinking fund for the payment of the principal of said bonds as it shall become due, until a sufficient sinking fund has been raised, the same to be turned over to the board of sinking fund commissioners created by ordinance of November 17, 1893, and applied to the payment of said bonds.

Resolved, further, That the city treasurer be and hereby is instructed and authorized to advertise for bids for sale of said bonds, and that the finance committee of the common council be present at the opening of the bids with power to reject or accept the same.

Resolved, further, That this resolution shall take effect upon its passage.

Passed June 10, 1902.

CITY OF MANCHESTER.

RESOLUTION setting apart Land for the Location of an Engine House.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

That a certain tract of land, now a part of land known as the "city farm" and hereinafter described, be and is hereby set apart for the purpose of erecting an engine house thereon, for the use of the fire department.

Said tract is situate in said Manchester and is bounded and described as follows, to wit:

"Beginning at a stake at the intersection of the northerly line of Concord street, proposed, with the easterly line of Weston street, proposed; thence easterly on the northerly line of Concord street, proposed, one hundred and twenty-five feet to a stake; thence northerly at right angles to said northerly line of Concord street, proposed, one hundred and twenty feet to a stake; thence westerly at right angles to the last mentioned line one hundred and twenty-five feet to a stake on the easterly line of Weston street, proposed; thence southerly on the easterly line of Weston street, proposed, one hundred and twenty feet to the point of beginning, containing about fifteen thousand square feet.

Passed July 25, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to a Park in McGregorville.

WHEREAS, The Amoskeag Manufacturing Company, through its treasurer, directors and agent, has offered as a gift to the city of Manchester a deed of the lot of land 500 feet by 181 feet on the east side of Beauport street, between Amory and Wayne streets, in West Manchester;

Resolved By the Board of Mayor and Aldermen assembled; That the offer be accepted and that this board place upon record its high appreciation of the generosity of the donors and that special thanks be extended to Mr. Herman F. Straw, agent of the Company, for his kindness and thoughtfulness towards the residents of McGregorville in securing this valuable gift to the city;

Resolved, Further, That a copy of these resolutions be transmitted to the Amoskeag Manufacturing Company.

Passed October 7, 1902.

CITY OF MANCHESTER.

RESOLUTION relating to an Appropriation to pay Certain Land Damages.

Resolved by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, in the laying out of Silver street from Hall to Belmont streets by the board of mayor and aldermen July 1, 1902, Jules Bourgeois was awarded the sum of six hundred dollars land damages, and

WHEREAS, in the laying out of Harvard street from Hall to Belmont

streets by the board of mayor and aldermen July 1, 1902, Napoleon Bour-nival was awarded the sum of four hundred and eighty-three dollars and fourteen cents land damages, and

WHEREAS, in the laying out of Harvard street from Hall to Belmont streets by the board of mayor and aldermen July 1, 1902, Joseph K. Mitchell was awarded the sum of five hundred and eighty-five dollars and ninety nine cents land damages, and

WHEREAS, in the laying out of Silver street from Hall to Belmont streets by the board of mayor and aldermen July 1, 1902, Joseph K. Mitchell was awarded the sum of six hundred dollars and seventy-three cents land damages, and

WHEREAS, in the widening of Merrimack street between Hanover and Cass streets by the board of mayor and aldermen July 28, 1891, a certain strip of land now owned by John Ferguson was taken, and

WHEREAS, at a meeting of the board of mayor and aldermen August, 22, 1902, the said John Ferguson was awarded the sum of thirty dollars land damages, therefore be it

Resolved, That an appropriation of two thousand two hundred and ninety dollars and eighty-six cents be and hereby is recommended to the board of common council; said sum of two thousand two hundred and ninety-nine dollars and eighty-six cents to be used to pay said awards.

Passed November 11, 1902.

CITY OF MANCHESTER.

AN ORDER to erect an Electric Light at the corner of Elm and Sagamore streets.

Ordered, That the committee on lighting streets be and hereby are authorized to erect an electric light at the corner of Elm and Sagamore streets, as petitioned for in the petition of Chas. E. Green et als., with proper fixtures for maintaining same; the expense thereof to be charged to the appropriation for lighting streets.

April 1, 1902.

CITY OF MANCHESTER.

AN ORDER to erect an Electric Light at the corner of Concord and Ash streets.

Ordered, That the committee on lighting streets be and are hereby authorized to erect an electric light at the corner of Concord and Ash streets, as petitioned for in the petition of J. E. Merrill et als., with proper fixtures for maintaining same; the expense thereof to be charged to the appropriation for lighting streets.

April 1, 1902.

CITY OF MANCHESTER.

AN ORDER to purchase Hose for the Fire Department.

Ordered, That the mayor and standing committee on fire department be and are hereby authorized to purchase two thousand (2,000) feet of hose

for use in the fire department of the city of Manchester, the expense thereof to be charged to the appropriation for fire department.

April 1, 1902.

CITY OF MANCHESTER.

AN ORDER relating to the Repairs on Public Buildings.

Ordered, That the mayor and standing committee on lands and buildings be and are hereby authorized and empowered to make such necessary repairs in and upon the public buildings of said city as shall not exceed the sum of four thousand six hundred and twenty-five dollars; and that said sum of four thousand six hundred and twenty-five dollars be charged to the appropriation for repairs on public buildings.

Passed April 1, 1902.

CITY OF MANCHESTER.

AN ORDER to buy Six Horses for the Fire Department.

Ordered, That the mayor and standing committee on fire department be and are hereby authorized to purchase six horses for use in the fire department of the city of Manchester; the expense thereof to be charged to the appropriation for fire department.

Passed April 1, 1902.

CITY OF MANCHESTER.

AN ORDER to purchase Two Combination Chemical and Hose or Ladder Wagons.

Ordered, That the mayor and standing committee on fire department be and are hereby authorized to purchase two combination chemical hose or ladder wagons for use in the fire department of the city of Manchester; the expense thereof to be charged to the appropriation for combination chemical for west side, and the appropriation for Wilson Hill engine house and combination chemical.

Passed April 1, 1902.

CITY OF MANCHESTER.

AN ORDER relating to Building a Fire Engine House on Wilson Hill.

Ordered, That the mayor and standing committee on lands and buildings be and they are hereby authorized and instructed to build a fire engine house on Wilson Hill: the expense of the same to be charged to the appropriation for Wilson Hill engine house and combination chemical.

Passed April 15, 1902.

CITY OF MANCHESTER.

AN ORDER in relation to the Decoration of Soldiers' Graves.

Ordered, That the Louis Bell Post, No. 3, G.A.R., be authorized to expend

the sum of three hundred dollars, and the Joseph Freschl Post, G.A.R., be authorized to expend the sum of one hundred dollars, under the direction of the mayor, for the decoration of the soldiers' graves upon Memorial day; and that said sum of three hundred dollars and one hundred dollars be charged to the appropriation for decoration of soldiers' graves.

Passed April 15, 1902.

CITY OF MANCHESTER.

AN ORDER to erect a Fire-alarm Box at the corner of Adams and Beauport streets.

Ordered, That the committee on fire department be and are hereby authorized to erect a fire-alarm box at the corner of Adams and Beauport streets in said city, with proper fixtures for operating the same, the expense thereof to be charged to the appropriation for fire department.

Passed April 15, 1902.

CITY OF MANCHESTER.

AN ORDER relating to Band Concerts.

Ordered, That the mayor be and hereby is authorized and empowered to expend such sum or sums the present year for open air band concerts as shall not exceed the sum of four hundred dollars; and the said sum of four hundred dollars be divided equally between the Turner brass band, Cadet band, City band, and Manchester Military band; and that said sum of four hundred dollars be charged to the appropriation for band concerts.

Passed April 15, 1902.

CITY OF MANCHESTER.

AN ORDER relating to the building of a new Schoolhouse in South Manchester.

Ordered, That the mayor and standing committee on lands and buildings be and they are hereby authorized and instructed to obtain plans and estimates for building, completing and equipping a four-room school building, to be located on the lot of land owned by the city of Manchester in South Manchester, bounded and described as is hereinafter mentioned. at an expense not exceeding ten thousand dollars (\$10,000), the same to be charged to the appropriation for South Beech-Street schoolhouse:

Beginning at a stake on the northerly line of Titus Avenue 730.33 feet westerly from the intersection of the northerly line of Titus avenue with the westerly line of Beech street and measured on the northerly line of Titus avenue; thence in a westerly direction on the northerly line of Titus avenue 220 feet to a stake; thence in a northerly direction at right angles with the northerly line of Titus avenue 220 feet to a stake on the southerly line of Beech avenue, proposed; thence in an easterly direction on the

southerly line of Beech avenue, proposed; and parallel with the northerly line of Titus avenue 220 feet to a stake; thence in a southerly direction at right angles with the southerly line of Beech avenue proposed, 220 feet to a stake at the point of beginning, containing 48,400 square feet.

And said mayor and standing committee are authorized to do any and everything necessary to complete said building, and to equip at least two school rooms and a teacher's room.

Passed April 15, 1902.

CITY OF MANCHESTER.

AN ORDER to build a certain Sewer in Ash street.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer as follows:

Beginning at the sewer line of Sagamore street and thence in a northerly direction to the sewer line of Salmon street in Ash street; and the expense thereof be charged to the appropriation for new sewers.

Passed July 1, 1902.

CITY OF MANCHESTER.

AN ORDER discontinuing Three Welsbach Gasoline Lights.

Ordered, That the committee on lighting streets be and hereby is authorized to discontinue the Welsbach gasoline light located on Mill street in Amoskeag; the Welsbach gasoline light located on Wentworth street in West Manchester; and the Welsbach gasoline light located on the Island Pond road near the Mill Dam House.

Passed July 1, 1902.

CITY OF MANCHESTER.

AN ORDER to build Certain Sewers.

Ordered, That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:

Beginning at the present sewer in Hayward street at Prout avenue and thence in a southerly direction 516 feet in Prout avenue; beginning at the sewer line of Beacon street, and thence in an easterly direction to the sewer line of Weston street in Bridge street; beginning at the sewer line of Lowell street and thence in a northerly direction to the sewer line of East High street; beginning at the sewer line of East High street and thence in a northerly direction to the sewer line of Bridge street in Ashland street; beginning at the sewer line of Milford street and thence in a northerly direction 800 feet in Bismarck street; beginning at the sewer line of East High street, and thence in a southerly direction to the sewer line of Lowell street in Buzzell street; and the expense thereof be charged to the appropriation for new sewers.

Passed July 25, 1902.

CITY OF MANCHESTER.

AN ORDER to erect Four Welsbach Gasoline Lights.

Ordered, That the committee on lighting streets be and are hereby authorized to erect four Welsbach gasoline lights, with proper fixtures for maintaining the same, at the following locations:

Corner of Lincoln and Valley streets, corner of Maple and Valley streets; corner of Hayward and Lincoln streets; and Hanover street opposite the Clough farm; the expense thereof to be charged to the appropriation for lighting streets.

Passed September 2, 1902.

CITY OF MANCHESTER.

AN ORDER to build certain Sewers.

Ordered, That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:

Beginning at the manhole in Harvard street 260 feet east of the sewer line of Wilson street and thence in an easterly direction to the sewer line of Hall street in Harvard street; beginning at the sewer line of Carpenter street and thence in a northerly direction to the sewer line of Trenton street in Chestnut street; beginning at the sewer line of Mast street and thence in a southerly direction to the sewer line of Milford street in Bowman street; beginning at the sewer line of Trenton street and thence in a northerly direction 500 feet in Union street; beginning at the termination of the sewer in George street as voted in June 5, 1900, and thence in a northerly direction to the sewer line of Charleston avenue in George street; beginning at the sewer line of Alsace street and thence in a westerly direction to the sewer line of Joliette street in Amory street; and the expense thereof be charged to the appropriation for new sewers.

Passed October 7, 1902.

CITY OF MANCHESTER.

AN ORDER to erect a Fire-Alarm Box at the corner of Kelley and Dubuque streets.

Ordered, That the committee on fire department be and are hereby authorized to erect a fire-alarm box at the corner of Kelley and Dubuque streets with proper fixtures for operating the same, as petitioned for in the petition of Joseph Trahan, et als; the expense thereof to be charged to the appropriation for fire department.

Passed October 7, 1902.

CITY OF MANCHESTER.

AN ORDER to erect Three Electric Lights.

Ordered, That the committee on lighting streets be and are hereby authorized to erect three electric lights with proper fixtures for maintaining

the same: the expense thereof to be charged to the appropriation for lighting streets: said lights to be located as follows: corner of Hooksett road and Webster street; corner of Belmont street and Lake avenue: corner of Russell and Orange streets.

Passed October 11, 1902.

CITY OF MANCHESTER.

AN ORDER to erect Four Welsbach Gas Lights.

Ordered. That the committee on lighting streets be and is hereby authorized to erect four Welsbach gas lights with proper fixtures for maintaining same, the expense thereof to be charged to the appropriation for lighting streets: said lights to be located as follows: Corner of Boynton and C streets, corner of Beech street and Brown avenue; on Elm street between Rowell and Trenton streets, on Candia road in front of John Proctor Place.

Passed October 11, 1902.

CITY OF MANCHESTER.

AN ORDER to erect an Electric Light.

Ordered. That the committee on lighting streets be and is hereby authorized to erect an electric light at the corner of Silver and Belmont streets, with proper fixtures for maintaining the same: the expense thereof to be charged to the appropriation for lighting streets.

Passed October 14, 1902.

CITY OF MANCHESTER.

AN ORDER to erect two Fire-Alarm Boxes.

Ordered. That the committee on fire department be and is hereby authorized to erect a fire-alarm box on Titus avenue near the Highland schoolhouse, as petitioned for by H. E. Blake, et als: and a fire-alarm box on Page street opposite the Eaton Heights shoe shop, as petitioned for by Griffin and Cogswell, et als, with proper fixtures for maintaining the same. the expense thereof to be charged to the appropriation for fire department.

Passed December 19, 1902.

CITY OF MANCHESTER.

AN ORDER to Purchase Three Horses for Fire Department.

Ordered. That the mayor and committee on fire department be and are hereby authorized to purchase three horses for use in the fire department, the expense thereof to be charged to the appropriation for fire department.

Passed December 19, 1902.

CITY OF MANCHESTER.

AN ORDER to build certain Sewers.

Ordered, That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows: Beginning at the sewer line of Hall street and thence in an easterly direction to the sewer line of Taylor street, in Somerville street; beginning at the sewer line of Taylor street and thence in an easterly direction to a point 450 feet west of the sewer line of Cypress street, in Somerville street; beginning at the sewer line of Clay street and thence in a southerly direction to the sewer line of Dix street, in Hall street; beginning at the sewer line of Carpenter street and thence in a northerly direction to the sewer line of Trenton street, in Adams street; beginning at the sewer line of Somerville street and thence in a southerly direction to the sewer line of Dix street, in Taylor street; the expense thereof to be charged to the appropriation for new sewers.

Passed December 19, 1902.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND NINE HUNDRED AND TWO.

AN ORDINANCE in amendment of Section 24, Chapter 6 of the Laws and Ordinances of the City of Manchester.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. Amend section 24 of chapter 6 of the Laws and Ordinances of the city of Manchester, by striking out the remainder of said section, after the word "July" in the fifteenth line of said section, and inserting in place thereof the following words: "Whenever captains of fire companies of the fire department of the city of Manchester shall be employed as permanent men, and whenever such captains shall be permanently employed on duty at the engine-houses in said Manchester, the pay of such captains shall be seventy-five dollars (\$75.00) a month, payable monthly," so that said section as amended shall read as follows:

"SECTION 24. The annual compensation of the members of the several hook-and-ladder, hose, steam fire-engine, and chemical engine companies, who shall personally perform all the duties required by law, shall be as follows: Drivers, each, sixty-eight and one-third dollars per month; permanent engineers of fire steamers, each, seventy-six and one-quarter dollars per month; other permanent men, each, [sixty-five dollars per month; all payable monthly; foremen, each, one hundred and sixty-five dollars; assistant-foremen, each, one hundred and sixty dollars; clerks, each, one hundred and sixty dollars; call engineers of steamers, each, one hundred and eighty-five dollars; call assistant-engineers, each, one hundred and fifty-five dollars; all other members, each, one hundred

and fifty dollars. All payable in equal semi-annual payments on the first of January and July.

Whenever captains of fire companies of the fire department of the city of Manchester shall be employed as permanent men, and whenever such captains shall be permanently employed on duty at the engine-houses in said Manchester, the pay of such captains shall be seventy-five dollars (\$75.00) per month, payable monthly."

SECTION 2. All ordinances and parts of ordinances inconsistent with this ordinance are hereby repealed, and this ordinance shall take effect upon its passage.

Passed to be ordained April 1, 1902.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND NINE HUNDRED AND TWO.

AN ORDINANCE in amendment of Section 23 of Chapter 6 of the Laws and Ordinances of the city of Manchester.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. Amend section 23 of chapter 6 of the Laws and Ordinances of the city of Manchester, in the eleventh line of said section, by striking out in said line after the word "of", the words "one hundred and seventy-five", and inserting in place thereof the words "two hundred and fifty", so that said section as amended shall read as follows:

"SECTION 23. The chief engineer of the fire department shall have charge of all fire department apparatus, horses, stables, and property of every description belonging to the department; he shall care for and keep in good condition the fire-alarm telegraph, attend to all duties appertaining to the fire department, and shall receive in full for his services the sum of fifteen hundred dollars per annum, to be paid in equal quarterly payments. The assistant engineers shall each receive the sum of two hundred and fifty dollars per annum, in full for his services, and for all duties pertaining to his office, to be paid in equal quarterly payments. They shall elect one of their number clerk, who shall record the proceedings of the board, and do such other things as shall be required of him by the board, and shall receive in full for his services as such clerk, twenty-five dollars per annum, payable at the end of his term of office.

Passed to be ordained April 1, 1902.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND NINE HUNDRED AND TWO.

AN ORDINANCE in amendment of Section 7, Chapter 14, and Sections 9 and 10 of Chapter 15, of the Laws and Ordinances of the City of Manchester.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows :

SECTION 1. That section 7, of chapter 14 of the Laws and Ordinances of the city of Manchester, passed June 4, 1901, shall not apply to any wooden building erected on the lot of land situated at the corner of Elm and Central streets in said city; and bounded on the west by Elm street, sixty feet on the north by Central street, 100 feet, on the east by Manhattan lane, sixty feet, and on the south by the Gooden property; provided, said building shall not exceed twelve feet in height between floor and ceiling.

SECTION 2. That sections 9 and 10 of chapter 15, of the Laws and Ordinances of the city shall not apply to any wooden building erected on the lot of land described in section 1 hereof, provided said building shall not exceed twelve feet in height between floor and ceiling.

SECTION 3. This ordinance shall take effect upon its passage.

Passed to be ordained, April 1, 1902.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND NINE HUNDRED AND TWO.

AN ORDINANCE relating to the Wetting down of Sidewalks.

Be it ordained, by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows :

SECTION 1. That the wetting down of sidewalks in the business sections of the city, between the hours of eight o'clock in the morning and eleven o'clock in the afternoon, is hereby prohibited.

SECTION 2. Any person violating the provisions of this ordinance shall be deemed to be guilty of a nuisance and punished accordingly.

SECTION 3. This ordinance shall take effect upon its passage, and shall be in force from said date until the first day of November, 1902, and thereafter in each year from the first day of April until the first day of November.

Passed to be ordained, July 1, 1902.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND NINE HUNDRED AND TWO.

AN ORDINANCE in amendment of Section 11, Chapter 6 of the Laws and Ordinances of the City of Manchester, relating to the Salary of the Clerk of the Common Council.

Be it ordained by the Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

SECTION 1. Amend section 11, chapter 6 of the Laws and Ordinances of the city of Manchester, in the ninth line of said section, after the word "office", by striking out the words "two hundred", and inserting in place thereof the word "fifty" so that said section as amended shall read as follows:

"SECTION 11. The clerk of the common council shall, in addition to his duties as clerk of that board, enter at length in a separate journal, to be kept for that purpose and provided with an index, all accepted reports of joint standing and special committees, and shall enroll all ordinances and resolutions that shall pass both boards of the city councils. He shall receive in full for his services, and for all the duties appertaining to his office, fifty dollars per annum, payable in equal quarterly payments.

SECTION 2. This ordinance shall take effect and be in force on and after the first Tuesday of January, 1903, and all ordinances and parts of ordinances inconsistent with this ordinance are hereby repealed.

Passed to be ordained, December 2, 1902.

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